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## Supporting Document

3.3.2 Number of research papers per teachers in the Journals notified on UGC website during the last five years.

No of Full Time Teachers	paper Publications in Journals notified on UGC website	Total No of recent	
216	9	2015-16	
222	11	2016-17	
207	15	2017-18	
198	24	2018-19	
190	24	2019-20	
Average No of Teachers	Total Publications 83		
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Iranian Polymer Journal



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Please note, that a graphical abstract is mandatory for a submission (see submission guidlined). This international monthly journal covers all the subjects in the field of polymers.

## Journal information

Editor-in-Chief

Mehdi Nekoomanesh Hagbighi

Publishing model

Hybrid (Transformative Journal). Leagn about publishing Open Access with us

Journal metrics

https://www.springer.com/journal/13726

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Biochymistry (Moseow)

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contributions of biochemical importance, reviews of contemporary biochemical topics, and muni-reviews (News in Biochemistry) biomedical sciences. Coverage also extends to new experimental methods in biochemistry, theoretical biochemical aspects of molecular biology, bioorganic chemistry, microbiology, immunology, physiology, and Biochemistry (Moscow) is the journal that includes research papers in all fields of biochemistry as well as

PEER REVIEW

basis of reviewers' comments. section of the journal topics. The decision is made by the Handling Editor and the Coordinate Editor on the manuscripts in 2019 was 78%. All referees' reports are sent to the Handling Editor responsible to the specific 2019 was 21 days, and that from first decision to acceptance was 5 days. The rejection rate for submitted Biochemistry (Moscow) is a peer reviewed journal. We use a single blind peer review format. Our team of reviewers includes over 200 experts, both internal and external (90%), from 8 countries (Russia, USA, Germany, Poland, Portugal, Sweden, Spain, India). The average period from submission to first decision in

clearly in a sound and reasoned way so that authors can use reviewer's arguments to improve the manuscript. should promptly notify the editors and decline the invitation. Reviewers should formulate their statements Any invited reviewer who feels unqualified or unable to review the manuscript due to the conflict of interests and the property of the state o ingradulin access About 1000 for the control grid ads to apply house

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Publishing model Subscription

Journal metrics

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2.487 (2020)

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### Journal metrics

Five year impact factor Impact factor 2.685 (2020) 2.926 (2020)

Submission to acceptance Submission to first decision 30 days 115 days

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optoelectronic circuits and systems. VLSI systems, systems on chip, wireless radio transceivers; clock and data recovery circuits; and high speed data converters; active-RC, switched-capacitor, and continuous-time integrated filters; mixed analog/digital A partial list of topics includes analog and mixed signal interface circuits and systems; analog and RFIC design;

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Yang Yang, Shaowei Liao, Raheel Hashmi, Bing Zhang, Konstanty Bialkowski

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Elame F. Barry, Julie O'Neill, Mohammed H. Abdulla, Edward J. Johns

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Azathioprine pretreatment ameliorates myocardial ischemia reperfusion injury in diabetic rats by reducing oxidative stress, apoptosis, and inflammation

Cuijle Lu, Ling Liu, Shuai Chen, Junfel Niu, Sheng Ll, Wenxian Xie, Xiang Cheng

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ICOS $^*$  follicular regulatory  $\mathfrak T$  cells are implicated in the pathogenesis of ulcerative colitis

Li Yao, Jianyang Guo, Juan Gui, Feihu Bai, Ruijuan Xin, Yanhong Deng, Shaoxuan Wang, Haitao Li

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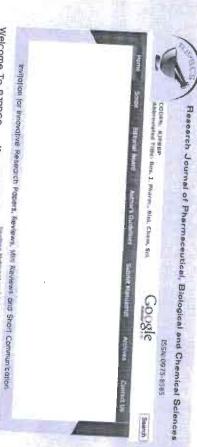
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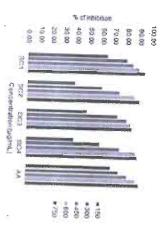
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constitution are 4500 mV and 37 µW respectively. The experimental result shows near radi-to-radi common mode using 0.25  $\mu m$  CMOS AMIS process with total chip area 213  $\mu m \times 266$   $\mu m$ . The systems supply and the power on this technique a differential difference current sunseyor (DDCC) was designed and fabricated in Cadence platform oftage range Electronics and Communications in year 2014. The BD-QFG MOST offers high transconductance value and extended QFG) (Khateb and Khatib, 2013 [27]] MOS translator (MOST) that was presented in AEU - International Journal of This brief presents the experimental results of the new principle technique named bulk-driven quasi-floating-gate (8Dout timen in ode voltage range (CMVR) all under low-voltage supply (LV) low-power consumption (LP) conditions. Exact



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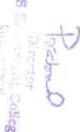
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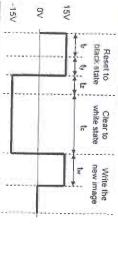
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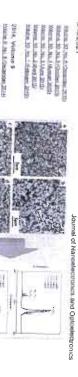
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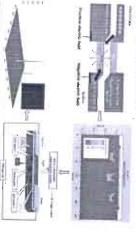
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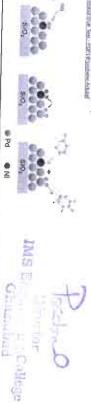




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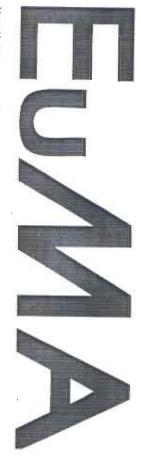
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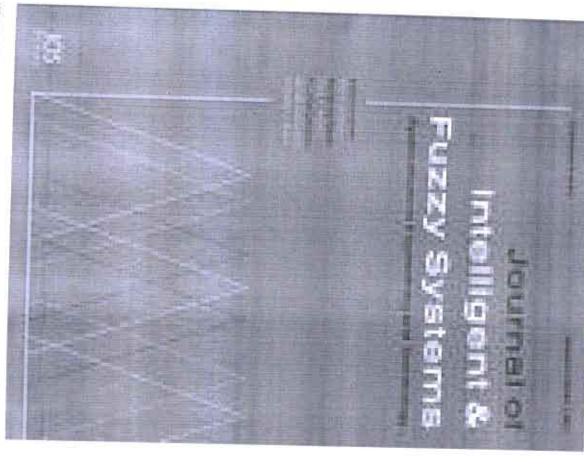
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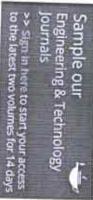
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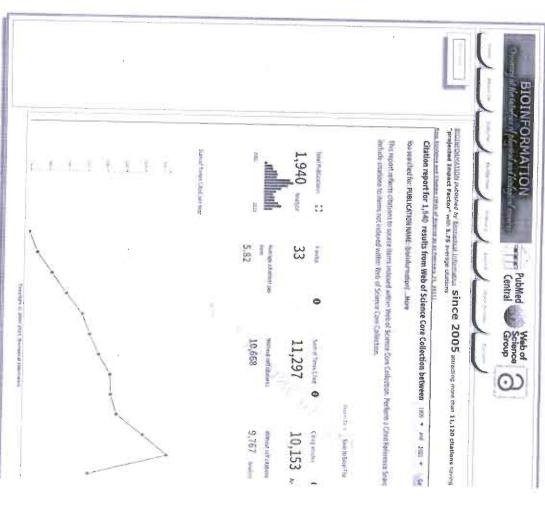
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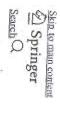
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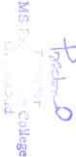
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#### Abstrac

Effect of negatively charged dust on resistive instability corresponding to the electrostatic wave is investigated in a Hall thruster plasma when this purely azimuthal wave is tilted and strong axial component of wave vector is developed. Analytical calculations are done to obtain the relevant dispersion equation, which is solved numerically to investigate the growth rate of the instability. The magnitude of the growth rate in the plasma having dust particles is found to be much smaller than the case of pure plasma. However, the instability grows faster for the increasing dust density and the higher charge on the dust particles. The higher magnetic field is also found to support the instability.

#### Introduction

In recent years, electric propulsion is being used successfully in space missions and the Hall thruster is one of the most promising devices [1,2,3] for small satellites because of its high thrust density and efficiency. To improve the efficiency of the Hall thruster, we require a detailed knowledge of physical processes occurring in the plusma of a thruster. Several physical phenomena are associated with the plasma fluctuations. One of the major problems of Hall thrusters is the discharge current oscillation, which has an adverse effect on the power processing unit (PPU) when its oscillations lie in the range 10–100 kHz frequency.



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ORIGINAL ARTICLE

# Studies on agarolytic bacterial isolates from agricultural and industrial soil

Stormi Parashar , Narendra Kumar 🛇

BSTRACT

Background and Objectives: Soil is rule or nucrobes which can be used for a variety of purposes starting from decemporation to antiblotic production. Again-agait, extracted from the marine environment is an important polysechande that has multiple uses after depradation by nutrother than a multiple uses after depradation by nutrother. The amount of this study was no solutant humans that produced upwares entry-as from a mility of solutions and the surface and study their morphological and inochemical characterization. The eczyma antivity of the surfaces was also studied at a different pH, nonpentation and again concentration.

Materials and Methods: Agasolytic inclusive, were identified from inclusival and uppr. enriched agreement suit by sets if distribut method uppn MSA method that contains oper as the city source of sufficient Qualitative employers of the inclusive was determined by footine array while for quantitative agrifutor of employers extractly at science in and vertically continuous DNSA method was used Genus of SELA a was adentified.

Results: 4 ministes were obtained from introvinal and and 5 were obtained from approxime soci ministed with laboratory ago: Isolate SILA 4 stronged maximum relative activity (OD 0.9) followed by CLLL 2 (OD 0.9) under standard culture ministrance locally SILA 5 showed maximum activity between 37°C 40°C pd 5.7 with 15°s ago; eccentration "COPL 1" showed maximum activity at jul 9 white "SILA 4" and "SILA 4" showed maximum activity at jul 9 white "SILA 4 thelanged to genus Monrobacter ium (Accession ma. MCDD 1882 II.

Conclusion: The resolts showed that some degrating tecreats can also be resisted from still sources when then the unual master sources and can be used for the industrial production of againer sources.

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Published: 16 February 2018

Continuous Punjabi speech recognition model based on Kaldi ASR toolkit

<u>lyoti Guglani</u> ≥ & <u>A. N. Mishra</u>

International Journal of Speech Technology, 21, 211–216 (2018)

500 Accesses | 10 Citations | Metrics

#### Abstract

model ASR. Further, it was found that MFCC the performance of triz model is improved over trix using tri3 model is improved over tri2 model and phone model ASR .Also the performance of ASR observed using the tri phone model over mono rate (WER). A significant reduction in WER was ASR system were computed in terms of word error language model is reported. The performance of model i.e., tri1, tri2 and tri3 model using N-gram (ASR) system for both monophone and triphone The performance of automatic speech recognition extracted from Punjabi continuous speech samples perceptual linear prediction (PLP) features were frequency cepstral coefficients (MFCC) features and For speech recognition, the extraction of Mel recognition model is presented using Kaldi toolkit. In this paper, continuous Punjabi speech



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Acceptant 18 Der 2017 OOL 10.1304/HCC.2018 college are fruit bird to see for within Keywords, antonna array, coefformal anterna; CA; legh gain anterna; wideband anterna wide conformal array for avionic applications nternational Journal of Systems, Control and Communications 2018 with the 1, pp.255 - 276 Splane —3 dB HRBW of 150° and H-plane HPBW of 62°. The measured realised given of the Delirados, Utanah — o tada IMS Engineening Colonia Ghamabad andia Title: Performance analysis of high gain beamforming onfiguration is fabricated and showing good agreement with simulated results intenna is above 6 dBi etriologicout the aperational band. The prototype of the proposed Inck from subtriate to obtain high gain, wide bondwidth and wide orgular coverage for also Addresses. Dr. A.P.J. Abdul Kallem Technical University, Liefshow India: KEAI University, Authors, Anurag Singh; Sandip Vijay, Rudra Narayan Baral shoubed grilline GI Airi 2018 batinet in modern wireless avidor systems like sircists, radar, musile and satellite nmunication, demand wideband or multifund antervias to improve the data rule was soon in this paper, two stotled columns are argumentically assembled on a cylinderial distributes. The respectively asserting as expensions in 3.8 GHz based with a fractive of 421 MHz 210x -17 60 per Access for subscribes ELECTRIC TREPARENT CONTRACTOR OF CONTRACTOR INC. St. Just Fusion of Science Park 18 \* Purchase this action #12002001 m New Jones Dur Newsletter Gultstribe for free f Visit us on Facesmi O E- ON US OIL A POR Keep up-to-date Dur Blog PART LOS THEO 200





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Visuance 19, (water ), February 2018, Pages 54-68

Continuous Morlet Wavelet Transform on Energy Concentration in Healthy Young and Elderly Subjects by the Adaptive Times Varying Spectral Coherence Investigation of Cardiovascular Signals Based

P.S. Single A. R. E.S. Spini PR, 405 Survivaria No.

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https://doi.org/10.1014/j.mbm/2017.12.004

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- Adaptive continuous Moriet wavelet transform
- Algorithm to calculate maximum energy concentration
- Synthetic signal demonstrated as characteristics of earthwear plan signals
- Effect of maximum energy concentration sat time-extying spectrum coherence.
- To investigate the time scarring spectrum coherence among cardiorsacular signals.

#### Abstrac

#### Objective

cardioviscular control. blened pressure variability (SABPV) and systotic arterial pressure whereal variability (APPV) signals for understanding of The aims of this study, to investigate the interaction aroung beam rate variability (HRV), respiratory, systolic address.

series data modeled as dynamic characteristics of cardinvascular signals invasueerbeut. The capaballig to correct temporal <u>boultation</u> of time-frequency regions was validated on symbotic time varying spectral soberence (TVSC). The adaptation of sheec extroducts was based on maximum energy (obsentiation transform (ADST) and adaptive modified Stockwell transform (ADMST) was used to assess the accuracy [AC] of time-In this study, three methods referred as adaptive continuous Mee'let resorbet transform (ADCMWT), staptive Stockwell

Results

in elderly compare to young group subjects (p=0.0125). elderly group subjects compared to young group subjects. The coupling between HRV-Respiratory signals in LF band from Fantasia standard data base and grouped as, 8 young subjects (4M + 4E age range 23–32) and 8 etderly subjects (4M 0 dB) and ADM5T (AC > 84.45% for SNR ≥ 5 dB). Further, the ADCMWT was applied to real cardiovascular data obtained was not significantly affected with the aging of healthy subjects. However, this coupling in HF band significantly reduced exherency between HRV-SABPV and HRV-APIV rignals in LF and HF band were significantly  $\langle p=0.00001 \rangle$  lower in band (0.15 Hz-0.4 Hz) of HRV spectrum. The global result depict that the median value of interquartile range of 4F, age range 70–82) for estimating the TVSC in low frequency (LF) band (0.04 Hz=0.15 Hz) and high frequency (HF) time-frequency regions with higher accuracy (AC > % 074% for SNR = 0 dB), compared in ADST (AC > % 71% for SNR z The results on synthetic simulated data show that the ADCMWT method allows for the temporal localization of the

components of cardiovascular time series. more suitable and highly accurate method for assessment and detection of time varying spectral and coherence physiological signals can be affected by energy concentration. The  $\Delta DCMWT$  at  $\omega_0 = 6$ , could be an alternative, possibly The comparative study shows that the time-varying spectra and accurate localization of coupling between two

## Graphical abstract



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#### Keywords

frequency Smoothing operator Adaptive continuous Mariet wavelet transforms Energy concentration measurement Instantaneous





(6.04 Hz=0.15 Hz) while <u>parasympathetic activity</u> is associated with the higher-frequency (147) range (0.15–0.4 Hz) of the electrocardiogram (FOG) at different frequencies. Sympathetic activity is associated with the low-frequency (LP) range (AMS) [1]. The AMS consists of sympathetic and parasympathetic components. The distinct rhythmic activities from Heart rate variability (HRV) analysis is a noninvasive method in monitoring the activity of autonomic nervous system The HF corresponds to the respiratory and the LF is mediated by a variety of different influences [3]. ermpathetic and parasympathetic components modulate the heart rate, and thus the RS intervals (HRV) in the heart rate [2]. The mid-frequency (MP), centered near 0.) 142, is associated with both sympathetic and parasympathetic

#### Abbreviation

ADCM WT

Adaptive commuous Mothet warelet transform



Medical Informatics

DOI: 10.15386'cymed-882

## FEATURES AND EXTREME LEARNING MACHINE DETECTION OF CORONARY ARTERY DISEASE BY REDUCED

RAMESH KUMAR SUNKARIA RAM SEWAK SINGH, BARJINDER SINGH SAINL

National Institute of Technology, Jalandhar, India Department of Electronics and Communication Engineering, Dr. B.R. Ambedkar

learning modeune (ELM). The realiting strategies designate reak to the available from on extraorted by emount morbiols from decomposed hourt race surrability (HRF) signational directing of ranked features. The most advanage of ELM is that the hidden layer thus not organize them according so their elunical importance. The GD4 diminishes the dimini require fronting and it also has a fast rate of describe enobest features. In addition, it can solvance the classification accuracy by picking the hori ranking method, generalized discriminant analysis (GDA) and binary classifier as ettieme from decomposed 1189' aignuts. The detection performance was small sed using Fisher signals using multiscribe wireder purket (MSHP) transform and entropy features extracted rate variability (HR1) seemds. This approach is based on unbacces decomposition of HR1 essential. For this, we have proposed a new approach to dissect the CAD patients using hours sufference and heart fathers. Therefore, we rearly identification of CAD and diagrams is population, mainly due to commany artery disease (CAD) like archythmia, myocardin Objective. Cardiovaxinlar diseases governor the highest normality in the global

this ten features to only our jeamer and £LM has been used for classification kernut + ELM has any hidden reads as signmed as multiplicative. The GDA method transferons server. The top two features were applied to the proposed model, GDA with Gaussian or RB! of 0.1 features, top son frutures were arbeited, ranked by a ranking method called as Frake. in this manner consentrates and user HRF riginals information in an asserted technique. Ou enterps: (FZE) and Keathan nearest neighbour warrays (K-NNE). Out of sixty-two features. It europes features more extracted by FZE and 31 optimes features near extracted by K-NNE. method. These features were selected since every feature has a different physical premise and the HRI Americas was decomposed to a lively using ASBP transform. Stry the summer were extracted from decomposed HRF signals by non-linear medicals for HRI analysis furn as normal sines rhythm (Self NSB) of health; subjects were also used as this work. Invally rhythus (NSR) and CAD pathents were obtained from a samilard database. Self recorded data Methodology. For the detection of CAD positions, the HRY data of healthy needed states

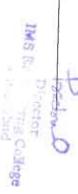
for detection and analysis of CAD patients. subspaces level of and fevel. I documposition of HIII signals by MSWP transform can be used  $100^{\circ}$ s compared to ELM and linear electromass analysis (L(Dd)+ELM) for both datasets. The mode un signasid os miditamaire method actumed an approximate detection accuracy of hidden punh as multiquadric method and GDA with Gaussian kernal + ELM having hidden performance using top ton ranked entropy features. The GDA with RBF harnet + ELM having as NSR-C4D and Self\_NSR- C4D subjects. The peopleted approach has about helian Results. A comercial experimentations were performed on the combination of distance

Kraskov neases neighbour entropy (K-NNE), generalized discriminant analysis (GDA), extreme learning machine (ELM) Keywords: multiscale wavelet packet (MSWP) transform fuzzy entropy (FZE)

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Accepted 11.31.2017

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Abstract

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elements (H2) are significant (p < 0.001) and excluding these features, the remaining features moment of amplitudes of diagonal elements (H3), PHE and logarithmic amplitudes of diagonal subjects. While in the case of YNG-CAD group of subjects, features like first-order spectral which is not significant for CAD-CHF, SELF\_YNG-CAD and SELF\_YNG-CHF group of same features of individual classes of HRV data sets are dissimilar. The results depicted that the all features are very significant (p < 0.0001) except the phase entropy (PHE) feature compare the features extracted by HOS for group of data sets. It indicates whether or not the and Self\_YNG-CHF subjects. A Wilcoxon rank sum test (p-value) was used to statistically were performed on the group of database sets as YNG-CAD, YNG-CHF, SELF\_YNG-CAD (YNG) and Self recorded of healthy young (SELF\_YNG) subjects. Statistical assessments using the HOS method. For this study, the R-R interval data (i.e. HRV signals) were taken from the standard database of cardiac heart failure (CHF), CAD patients, healthy young based on 10 spectra nonlinear features. These features were extracted from HRV signals by subjects using extracted features from heart rate variability (HRV) signals. This assessment is indicates whether or not a cardiac heart disease is present, by assessing the cardiac health of method as higher order spectra (HOS) for assessment of cardiac diseases. The method failure (CHF) are of prime importance. In this work, we have used a non-invasive diagnosis beat and heart failure. Therefore, the beginning stage detection of CAD and cardiac heart becomes weak and heart pumping is disturbed which may eventually lead to abnormal heart upsurging every year. Due to cardiac artery disease (CAD), the strength of heart muscles Cardiac diseases are major reason of death in the world populace and the numeral of cases is

Vol. 39, No. 3-4 /2017, pp: 49-66 Applied Medical Informatics

Continuous Morlet Wavelet Transform Power Spectral Analysis of Short-Term Heart Rate Variability Arthythmia Subjects by the Adaptive

Ram Sewak SINGH'', Barjinder Singh SAINI', Ramesh Kumar SUNKARLA

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Received: December 3, 2018 / Accepted: December 19, 2017/ Published online: December 31, 2017

that spectral indices of low frequency power (LTp) and high frequency power (HTp) of HRV were decreased in HEG compared to HYG subjects (p<0.0001). While LTp and HTp indices were obtained from SVTG were reduced compared to other group subjects (p<0.00001). mereased in ARCMG compared to HEG (p<0.0001). The Hp and Hfp components of HRV (ARCMG), and supravenurcular eachycardia group (SVTG) subjects. The global results demonstrate ACAIWT was applied to real HRV data from Fantasis and MTF-BH dambases, grouped as healthy (CAWT) and Stockwell transform (ST) estimators at statistical significance level of 5%. Further, the young group (EYG), healthy elded; group (EEG), arthythmia controlled medication group adaptive modified Stockwell transform (AMST), sandard continuous Moriet wavelet transform power spectral of short-turn HRV time series compared to adaptive Stockwell transform (AST) signals, the ACMWT was found to be an enhanced energy concentration estimator for assessment of noise (AWGN) to show its robustness towards the noise. From the results of using on synthetic changes in HRV signals. This method has been also rested in the presence of aidinive white Gaussian stationary as slow varying and fast changing frequency with nane) modeled as closest to dynamic energy enneconsisten. The ACMWT has been validated on synthetic signals (i.e. stationary, nonvalue of interquarile range. Adaptation of the meshod was based on the measurement of maximum describe the time-frequency characteristics of the HRV using band power spectra and the median this study, an adaptive commuous Morlet wavelet transform (ACMWT) method has been used to information to understand the functioning of autonomic control over the cardiovescular system. In Power spectral analysis of short-term heart rate variability (HRV) can provide instant valuable

Global method; Shape parameter Keywords: Adaptive commissous Morlet wavelet transform; Energy concentration measurement,

cases each year in the world wide population [1]. The term attriptions refers to a disorder in the timing or pattern of the heartbeat. Arrhythmia may be due to abnormalizes in impulse formation or in the heart's electrical system, or both, but it is not always a disouter of hear elyethm [2,3] Sustained arthythmias are the most common reason of sudden cardiac death, about 75- 85 %



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### HEART DISEASE USING REDUCED CLASSIFICATION OF CARDIAC LINEAR PROGRAMMING EXTREME CHAOS FEATURES AND 1-NORM EARNING MACHINE

pages 465-486

10.1615/IntJMultCompEng.2018026587



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## **ABSTRACT**

Objective: This article presents a novel method for binary classification of cardiac heart disease using generalized

feature by the GDA estimator having radial basis function correlation (CBC). The nine features were then reduced to one multiscale permutation entropy (IMPE) and cumulative biratio, Hurst exponent (HE), permutation entropy (PE), improved entropy (ApEn), the results of the Poincare plot as SD1/SD2 detrended fluctuation analysis (DFA) as ?1 and ?2, approximate investigation methods, such as correlation dimension (CD), were extracted from HRV time-series signals by using chaos coronary artery disease (CAD) subjects. Initially nine features sinus rhythm (NSR), congestive heart failure (CHF), and database of healthy young (YNG), healthy elderly (ELY), normal disease, the HRV signals were obtained from a standard hidden nodes. Methodology: For classification of cardiac heart decision function can be made using a reduced number of thus, without scarifying the validation accuracy, the choice of a components of optimal solution vector will become zero and approach leads to a spares model depiction, in which several accuracy by selecting best discerning features. The 1-NLPELM variability (HRV) signals, and can improve the classification reduces the dimension of extracted features from heart rate programming extreme learning machine (1-NLPELM). The GDA discriminant analysis (GDA) and the 1-norm linear

(RBF), Gaussian and polynomial nonlinear kernel. This reduced feature was applied to the 1-NLPELM classifier. Results:

Numerical experiments were performed on the combined database sets as YNG-ELY, NSR-CAD, NSR-CHF, CHF-CAD, YNG-CAD, CHF-YNG, ELY-CAD, and ELY-CHF subjects. The proposed method produced 98.38% validation accuracy for the NSR-CAD dataset and 100% validation accuracy for remaining datasets.

Results were compared with support vector machine (SVM),

extreme learning machine (ELM), differential evolution extreme learning machine (DE-ELM), online sequential extreme learning machine (OS-ELM), linear programming extreme learning machine (LPELM), 1-NLPELM, and linear discriminant analysis (LDA) + 1-NLPELM.

KEY WORDS: 1-norm linear programming extreme learning machine (1-NLPELM), generalized discriminant analysis (GDA), Chaos features, improved multiscale permutation entropy.

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VLSI implementations of retimed high speed adaptive filter structures for

Pankaj Goel & Mahesh Chandra

speech enhancement

Microsystem Technologies 24, 4799-4806 (2018)

220 Accesses Metrics

#### Abstract

88.176 MHz whereas that of conventional retimed DF-RDLMS implementation is found to be platform implementation, the clock speed of speed. Similarly, for the Virtex-4 series FPGA thereby having an improvement of 15% in clock unretimed DF-LMS structure is 85.485 MHz, 98.309 MHz whereas that of conventional RDLMS implementation is found to be implementation, the clock speed of retimed DFthe Spartan-6 series FPGA platform requirements, latency and cost. For instance, for vary considerably in clock speed, hardware been observed that various VLSI implementations series and Virtex-4 series FPGA platforms. It has cancellation are implemented for Xilinx Spartan-6 speed adaptive filtering structures for noise speech enhancement. In this work, various high retimed high speed adaptive filter structures for This paper presents FPGA implementation of

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#### APER

Analysis and performance exploration of high performance (HfO<sub>2</sub>) SOI FinFETs over the conventional (Si<sub>3</sub>N<sub>4</sub>) SOI FinFET towards analog/RF design

Neeraj Jain<sup>1</sup> and Balwinder Raj<sup>1</sup>

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Journal of Semiconductors, Volume 39, Number 12

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VLSI Design Lab, Department of Electronics and Communication Engineering, Dr. B. R. Ambedkar National Institute of Technology (NIT), Jalandhar (Punjab), India

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#### Abstract

Nowadays FinFET devices have replaced the MOS devices almost in all complex integrated circuits of electronic gadgets like computer peripherals, tablets, and smartphones in portable electronics. The scaling of FinFET is ongoing and the analog/RF performance is most affected by increased SCEs (short channel effects) in sub 22 nm technology nodes. This paper explores the analog/RF performance study and analysis of high performance device-D2 (conventional HfO<sub>2</sub> spacer SOI FinFET) and device-D3 (source/drain extended HfO<sub>2</sub> spacer SOI FinFET) over the device-D1 (conventional Sl<sub>1</sub>N<sub>4</sub> spacer SOI FinFET) at 20 nm technology node through the 3-D (dimensional) simulation process. The major performance parameters like  $I_{0n}$  (ON current),  $I_{olf}$  (OFF current)



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## Source/Drain SOI FinFET Structure for Analog Circuit Applications Parasitic Capacitance and Resistance Model Development and Optimization of Raised

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By Praveen Chaurasia, Binod Kanaujia, Santanu Dwari, and Mukesh

Kumar Khandelwal

Multiple Wireless Applications

Antenna with Hexa-Band Capabilities

2018-03-21

Progress In Electromagnetics Research C, Vol. 82, 109-122, 2018

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DOI: https://doi.org/10.1166/jno 2018 2290 Source: Journal of Nanoelectronics and Optoelectronics, Volume 13, Number 4, April 2018, pp. 531-Publisher: American Scientific Publishers

Authors: Jain, Neeraj; Raj, Balwinder

Abstract References Citations Supplementary Data Suggestions

resistance models can be directly used in analog or nanbelectronic circuit applications for evaluating the dimensional (3-D) field solver Synopsys Raphael software. The developed parasitic capacitance and Raised source/drain (RSD) SOI FinFET structure and validity of these models are verified by threegeometry. In this paper, analytical capacitance and resistance models are developed for three-dimensional directly to the finFET transistor in sub 20 nm technology node due to its three-dimensional non-planar at lower performance nodes. The conventional capacitance and resistance model cannot be applied FINFETs in the integrated circuits suffers from the increased parasitic capacitance and resistance problems complex integrated circuits of electronic gadgets like computer perpherals, tablets and smartphones at lower technology node. The scaling of the FinFET structure is continuously ongoing and performance of Nowadilys FinFET based structure has replaced the conventional MOS based structure almost in all

Keywords: LEAKAGE CURRENT, NANOELECTRONIC CIRCUITS; PARASITIC CAPACITANCE; PARASITIC RESISTANCE;

Document Type: Research Article

accurate simulation results.

Publication date April 1, 2018

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Abstract

doi:10.2528/PIERC17120602

which is based on Finite Element Method (FEM), and presented and discussed. Analysis is done by Ansoft HFSS v.15 3.872 GHz for C-band applications and 5.132 GHz for Lower fabricated prototypes which are found in close agreement simulated results are verified with experimental results of WLAN. Design procedure and formation of all six bands are wireless video links. 3.128 GHz and 3.376 GHz for WiMAX, i.e. 2.5 GHz for UMTS and Wi-Fi, 2.812 GHz for CCTV with and 1.3254 and can be used for various wireless applications consecutive resonant frequency 1.1248, 1.1123, 1.0792, 1.1469 frequencies with very small frequency ratio between two a multiband antenna at any desired frequencies through these small frequency ratio is designed and analysed. One can design proposed methods. The proposed antenna shows six operating In this paper, a novel multiband microstrip patch antenna with

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- Penta-band microstrip patch antenna with small frequency...

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# Penta-band microstrip patch antenna with small frequency ratios using metamaterial for wireless applications

Published online by Cambridge University Press: 11 July 2018

Praveen Chaurasia, Binod Kumar Kanaujia, Santanu Dwari and Mukesh Kumar Khandelwal (p.

Article contents

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Abstract

A novel shape penta-band microstrip patch antenna is presented in this paper. The proposed antenna shows five operating frequencies and can be used for various wireless applications, i.e. 2.58 GHz for non-direct line of sight, wireless Internet service providers, and compatible with Navini Networks; 3.17 and 3.42 GHz for WiMAX; 4 GHz for C-band application such as weather radar systems; and 5.3 GHz for higher WLAN. Very small frequency ratios of the values 1.2286, 1.078, 1.169, and 1.325 are achieved between two consecutive resonant frequencies. Antenna design techniques for achieving five bands are presented and discussed step by step. The analysis is done by Ansoft HFSS v.15, and results are verified with experimental results of fabricated prototypes.

#### Keywords

ipofe inter digital capacitor-loaded loop resonator

microstrip equilateral triangular patch antenna

rectangular split-ring resonator

Intelligent control model to enhance the performance of unified power quality conditioner

Issue title: Special Section: Intelligent tools and techniques for signals, machines and automation

Guest editors: Smriti Srivastava, Hasmat Malik and Nameesh Sharma

Article type: Research Article

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Correspondence: [7] Corresponding author. Mashhood Hasani, Electrical Engineering Department, Galgotia College of Engineering and Technology, Greater Noida, Ultar Pradesh 201306, India. Tel.: +919810465498 E-mail: <a href="mailto:minashhood2010@gmailto

Abstract: A unified power quality conditioner (UPQC) has two converters interlinked with back to back DC voltage source. The UPQC is used to improve the multiple power quality (MPQ) of the AC distribution network. The quality of the UPQC depends on the selection of series and shunt control algorithms. The series converter injects the voltage and improves voltage quality whereas the shunt converter injects turnent and improves the AC distribution network. The UPQC works properly if the DC link voltage maintains constant under abnormal or normal condition of AC gvid system. Thus, in this paper, DC link voltage is controlled using intelligent model, adaptive neura fuzzy inference system (ANFIS) result is compared with fuzzy model and conventional PI controller to enhance the midgation capability of the UPQC. Moreover, the sener and shunt converters are controlled by modified second order generatised untegration (SOG) based algorithm. The performance of intelligent control model is verified by MATLAB based simulation results.

Keywords: ANFIS controller. fuzzy controller, harmonics, intelligent technique, multiple PQ. PI controller. DOI: 10.3233/JIFS-169785

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Published: 20 November 2015

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p-ISSN: 2395-0072

## Preparation of flood model and hazard estimation on Yamuna River (using GIS and remote sensing)

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identify flood risk areas within Delhi. prone areas. This study used the scientific technique of GIS to management of flood risk begins with identification of flood manageable point or perhaps eradicate its bad impact. The the residents' to reduce the associated risk of floods to a impact of floods on people globally has led to the mitigation of geographical, hydrological and geomorphologic causes. . The understanding of the flooding phenomena and their related and scientific model must be developed for a better In order to achieve this objective it is crucial that more specific and improve knowledge about the prevention from damages. can't be fully controlled, it's important to focus on this issue are part of human being life and that this natural phenomena destruction of infrastructures. Knowing the fact that the floods the affected location such as loss of lives , properties and temporary inundation of dry land cause serious damages in Abstract - Floods are water induced disasters that lead to

Sensing, Flood management Key Words: GIS (Geographical information System), Remole

## 1. INTRODUCTION

data can improve the allocation of resources for response. represent intowledge in visual format so during emergency mitigation of people can be possible. Real time geographic before execution of policies. GIS is useful in flood hazard impact and also can be used for planning and management zone mapping as it manage things geographically and also support tool. GIS data can be utilized for evaluation of flood fast, transparent and accurate so it can act at a decision data and Non-Spatial data or related information. As GIS is analysing and present all types of spatial or geographical also provide one platform for surveying, mapping, storing technology is that it integrate all data with transparency and different map and digital elevation model. Potential of GIS provide an effective way of gathering information from frequently used to produce flood hazard map and they premium in area where flood insurance exists. GIS are map can be used by developers to determine flood insurance order to reflect the changing risk at flooding. Flood hazard level flood hazard maps will require periodic updates in a given point in time. Due to climate change in relative sea hazard mapping typically provide a snapshot of flood risk at is important to note that climate change occurring and flood fertility, and help to recharge underground stores of water. It grnerally have beneficial impacts for the ecosystems and soil Flooding is a process that has always played an important role in shaping the landscape. Floods that occur also

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useful in flood mitigation planning process, that it generates a visualization of flooding that could be very Flood is a major problem to the human race where advantage of using GIS for flood mapping and management is settlements have grown up along the river. The main

## 1.2 LITERATURE SURVEY

can be easily calculated in the GIS software [1] easily trace out. The model is considered as useful tool when velocity maps can be prepared and the flood inundated area combined with the GIS tools, determine the water depth flood mapping of the low reltefarea effected by flood can be that with the help of this software he flood inundation and hydraulic madeling on flood plain mapping and concluded this paper the researcher has done a literature study on in the world causing vast damages to life and property. In Floods are the most critical among all the natural calamities

describes the flood hazard mapping by using GIS and hydraulic model for the Mert River. Samsun, Turkey. The papers represented by Vahdettin demir and Ozgur Kısi

a 100yr return period flood event Statistics for the moderate risk with respect to population and buildings respectively for system for flood forecasting, planning and management is to develop, demonstrate and validate an information Maps for different return periods. The study reveals that about 11.5 km² (square idlometer) and 5.41 km² are at high using remote sensing data with the help of Flood Mazard System) and HEC-RAS. Base on the flood extent, this project extent obtained for the 50-year rainfall using HEC-HMS (Hydraulic Engineering Center's - Hydrologic Management was compared with the flood extent derived from the flood flood event occurred on June 2008 in this river. Then that extracted from satellite image available for one in 50 year Another study was conducted in which flood extent was this region by adding levy and regulation of river bottom [2]. periods and this study also indicates an insufficient urban some areas are highly affected from flood for low return maps by integrating phases (I) and (II). The conclusion is that planning in this area. Therefore floods can be prevented in using HEC-RAS hydraulic model. (iii) Preparing flood risk (ii) simulation of flood flows of different return periods food hazard map can be explained by following three phases- (I) preparing digital elevation model using AppGIS different return period's. The methodology-for developing The aim of this study is to obtain flood hazard maps of the Mert river basin using GIS and HEC-RAS [Hydraulic engineering Center's- River Analysis System) for floods of

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ATTICLES

# FSW of AA7475 to AISI304 Investigation on material mixing during

Namrata Gangil, Mustufa Haider Abidi & ...showaii Pankul Goel, Noor Zaman Khan, Zahid A. Khan, Abdulrahman Ahmari

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### ABSTRACI

range of 450-560 rpm, 50-63 mm/min, and 12-14 mm, respectively. Mechanical Tool rotational speed, traverse speed and shoulder diameter were varied in the with tool having pin diameter of 4 mm and offset of 1.25 mm on Aluminum side dissimilar joints were fabricated using friction stir welding. Welding was performed which is used in key aircraft components. Maiden AA7475-T761 and AISI304 exotic and widely distant properties. AA7475-T761 is a high strength aluminum alloy joining of these alloys is the difficulty in mixing of these materials which possess alloy-to-SS dissimilar joining is difficult and challenging. Major challenge in the AA7xxx and AISI304 stainless steel (SS) are employed in promising applications.



2347

ency of 71% of Al-allov at 7.31% elongation. The materials ormed with 14 mm diameter, 560 rpm and 50 mm/min





## Stir Butt and Scarf Welded Aluminium Alloy 6063 Mechanical and Microstructural Properties of Friction Investigation on the Effect of Tool Pin Profiles on

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- Tel.: +91-11-26981259 (N.Z.K), +966-11-4698773 (M.H.A.) Correspondence: noor\_1016@yahoo.com (NZK); mahidi@keu.edu.sa (M.H.A.); Princess Fatima Alnitis's Research Chair for Advanced Manufacturing Technology, Advanced Manufacturing Institute, King Saud University, Riyadh-11421, Saudi Arabia; alahman@ksu.edv.sa

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the FSW was discussed with the help of fractography of the fractured surfaces. properties and microstructure has been made. In addition, the formation of various defects during the different zones of weided joints. A thorough discussion on correlation between mechanical 6053-T6 was investigated. Scanning electron and optical microscopy were employed to characterize pin profiles on microstructure, nucro-hardness, impact and tensile properties of friction stir welded Al was used and effect of pin profiles was investigated on this type of joint configuration. The effect of and hexagonal) were applied for performing welding. Scarf joint, being a new joint configuration, were investigated. Five different tool pin profiles (cylindrical, tapered cylindrical, square, triangular, Abstract in the present study, friction stir welding (FSW) of butt and scarf joints of Al 6063-T6

microstructure, metallungy Keywords: triction stite welding; searf joint; butt joint, tool pin profiles; mechanical properties,

process parameters like tool rotation speed, plunge depth, welding speed, etc., in such a way so as to frictional heat generated between the rotating tool and the workplete being welded, through a set of environmentally friendly too [6]. Basically, the welding process operates by governing the amount of metallurgical phases during heat rejection as shown in Figure 1. This process is energy efficient and sequential progress of ESW process that is the pre-heating, initial deformation, extrusion, forging and properties due its presence is just mot possible [5]. There are a number of stages involved in the feature of the fusion weld microstructure is not present in the FSW, thus any harm to the mechanical and hot cracking are not found in FSW [4]. Moreover, the dendritic structure that is a characteristic (FSW), proved a great success [1-3]. It is evident from the research available that flaws like porosity alloys (e.g., age hardenable alloys), a new hot shear welding technique known as Friction Stir Welding corrosion resistance and good formability. Conventionally, for joining certain classes of aluminum for aviation, automobile and the entire transportation sector as it has high strength to weight ratio. Aluminum allow has been widely acknowledged in fabrication of lightweight structures especially

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## Brugia malayi against Glutathione-S-Transferase protein from Virtual screening and docking of lead like molecules

Siva Presid Vindom Satya Chekkara 1. Priya Baryan Kuma

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PMID 31222214 PMCID: PMC8583567 DOI: 10.0025/317206/3014554 Stree Plut article

#### Abstract

pyrralismentone and benemictarale families respectively as potential inhaltons of GST from Brugis We report two potent inhalitors 2/MC00179016 and 2MC08385519 which are the molecules of is of interest to syleen GST from Bropps makeys with millions of known ligands at the ZINC detabase detoxification enzyme and fielp in wirecellular transportation of hydrophobic substrates. Twenture, it Glorathione 5-transcease(s) (651) is an important characteristic peuts target in lymphatic filarest seing AUTODOCK for the identification of potential inhibitors with improved binding characteristics caused by Brugin medion and Washeema baracraft. It has been playing an important role as major Talayi with sustable binding properties.

Scientino Keywords: Brugu mwayi Bezimidazole: Giutathione-S-transferase: Pysvolidowdrone family: Vilhan



#### Figures











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alignment between goes GST

Figure 1 Saucesco

Related information

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Published 27 March 2019

An inventory system for varying deteriorating pharmaceutical items with price-sensitive demand and variable holding cost under partial backlogging in healthcare industries

Mohit Rastogi ≥ & S.R. Singh

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#### Abstract

record increases with time. Thus, the cost of the cold store or even the cost of keeping the patient's maintaining the pharmaceutical products in the manufacturing cost of medicine, the cost of same all the time whereas in realistic situations, different costs related with inventory remain the most of the developed models it is believed that the follows a three-parameter Weibull distribution. In deterioration is considered as time-dependent and deteriorate significantly. Hence, the rate of pharmaceutical products (medicine or drugs) the context of healthcare industries because of deterioration as constant, which is not logical in pharmaceutical inventory models consider the rate sensitive demand. Mostly existing studies of deteriorating pharmaceutical items with price-This paper presents an inventory system for



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A Pharmaceutical Inventory Model for Varying Deteriorating Items with Price Sensitive Demand and Partial Backlogging Under the Effect of Learning

Mohit Rastogi ≥ & S. R. Singh

International Journal of Applied and Computational Mathematics 5, Article number, 74 (2019)

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#### Abstract

quantity. Finally, a numerical example is taken to optimal time interval and optimal ordering average cost of the system by computing the makes the study realistic. The purpose of the development of this model is to optimize the total (holding and ordering) has been applied which The learning effect on different associated cost backlogging rate is assumed to be time dependent. assumed to be partially backlogged and the distribution. The shortages during stock out deterioration that follows two parameters Weibull price dependent demand and varying rate of proposed a pharmaceutical inventory model with in the context of healthcare industries. So, we unvarying rate of deterioration which is not lonical inventory models considered constant demand and Most existing studies of the pharmaceutical





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region thruster channel having dust in exit Growth of Rayleigh instability in a Hall

AIP Advances 9, 055220 (2019); https://doi.org/10.1063/1.5050688

Hitendra K. Malik<sup>के</sup>, Jasvendra Tyagi, *and* Dimple Sharma

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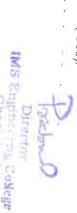
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ABSTRACT



REFERENCES New Delhi (Proj-5204-3/RP03052). Centre for the Promotion of Advanced Research (IFCPAR/CEFIPRA), The authors appreciate the financial support given by Indo French ACKNOWLEDGMENTS the role of density gradient scale length on the growth of the instability. charge, mass and temperature of the dust particles. We also talk about thruster plasma and examine its growth rate for different density, the dispersion equation for the growth of Rayleigh instability in the By considering dust particles with negative charge, we derive and solve dust is generated, which is largely confined near the exit of the channel maximum erosion of wall of the exit region takes place. This way the chamber and the divergence of ion beam sputter the wall and thus the

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## Patch Antenna Low Cross-Polarization Improved-Gain Rectangular

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agreement between experimental and simulated results of below -30 dB in the entire half power beamwidth. The prototype of the antenna exhibits good to 10.65 dBt. The proposed antenna has perfect broadside radiation with a cross-polarization level discussed. Integration of the superstrate achieves a beam contraction resulting in a gain enhancement To characterize the unit-cell of the superstrate, its transmission characteristics are extracted and designed and placed over the proposed antenna at an optimized position to intensify the gain the cross-polarization level. A High Reflective Frequency Selective Surface (HRFSS) superstrate is presented. A patch-ground shorting pin with defected patch structure (DPS) is introduced to suppress Abstract. In this paper, a low cross-polarization improved-gain rectangular patch antenna is

Keywords: antenna; cross-polarization; defected-patch-structure, frequency selective surface,

#### 1. Introduction

leading to cross-talk is a severe issue in a communication system such as narrow bandwidth, peor gain and higher cross-polarization [1]. In particular, cross-polarization current wireless communication system being low-profile, easily manufactured, easy to integrate, with multi-polarization, multi-band operations, etc. However, it has some critical limitations too, The microstrip anterna has many excellent features satisfying the requirements of the

based metamaterial and demonstrated ha lonsing ability by contracting the HPBW by 4.9°, and 6.7° the antenna in a particular direction, leading to excellent directive gain. In [7], Fabry Perot based gain. In [4-6], phase-gradient based imultilayered structures are utilized to intensify the radiation of inclamaterials are placed over a conventional rectangular patch antenna and contraction of the main beneath the antenna to reflect radiation back towards the broadside direction to enhance the antenna electromagnetic shielding. However, in many cases the single negative metamaterials are deployed labe is demonstrated, resulting in an improved gain. Xu et al. have detailed a zero refractive index propagation. A single negative metamaterial acts as a perfect reflector and is thus, effective for shield the electromagnetic radiation. Double negative metamaterials are useful for backward wave auteana. A variety of metamaterial structures are reported in the literature to either intensity or the metamaterial-based technique is commonly used in the literature to intensify the gain of the exhibiting a peak realized gain above 20 dBi [1]. Among the different techniques of gain enhancement, current generation microstrip antennas are capable of handling ultra-wide bandwidth [2] and There is extensive literature on the bandwidth and the gain enhancement techniques. Hence,

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still scope to develop a simplified metamaterial structure to allow easy fabrication, and integration have unique qualities in terms of their structure, design simplicity, and effectiveness. However, there is direct the radiation in a particular direction. Different metamaterials [4-12] reported in the literature Fabry-perot resonant cavity, where metamaterials are placed at a certain distance from the antenna to on, either the zern refractive index, phase compensation using the gradient refractive index, or the Propagation is demonstrated using left-handed materials. The metamaterial-based technique is based strategies to achieve the 2D anisotropic zero-refractive-index metamaterials. In [9,10], backward-wave in the E and H-planes respectively [8]. They have implemented fractal, spiral, and meandered-based

services (WMTS), medical implant services (MICS), military and avionic communications strong cross-talk [11] and is thus extremely threatening to applications like wireless medical telemetry few dedicated techniques are reported in the literature. A higher cross-polarization level results in Another critical issue of metrostrip antennas is their high cross-polarization level for which very

non-conventional antennas and differential feeding [19], are also reported in the literature to suppress the cruss-polarization of anternas. However, a few other techniques such as aperture coupling [16], metamaterial based [17,18] in [14,15], different DGS structures are employed to suppress the cross-polarization of rectangular patch a graphene-based antenna in the elevation plane. In [13], a dumbbell-shaped DGS is reported to achieve a co-cross-polarization isolation of more than 30 dB for a rectangular patch antenna. Similarly, Recently, in [12], Kumar et al. presented a rectangular DGS to suppress the cross-polarization of Defected ground structure (DCS) is widely used to suppress the cross-polarization [11-13]

the proposed technique is developed which is intended to work in the S-band and good agreement between the simulation and measured results have been found. by analyzing the HRFSS unit cell in the context of transmission cluracteristics. Finally, a prototype of in an excellent peak measured realized gain of 10.65 dBl. The characterization of the superstrate is done The height of the superstrate is optimized at 34 mm achieving best possible synchronization resulting antenna and the superstrate, optimization of air-gap is required to synchronize the resonant frequency enhance the gain which is inspired by [23,26,26]. As the air-gap affects reflection coefficient [23] of both SMA connector. Thereafter, an aperture type miniaturized superstrate is installed over the antenna to the non-conventional patch structure, the feeding location is optimized to perfectly match the 50  $\Omega$ the proposed technique does not disturb the principal pattern of the rectangular patch interna. Due to resulting in co-cross-polarization isolation of more than 30 dB in the elevation plane. Moreover, the ground using a shorting-pin and an optimized thin slot is incorporated near to the shorting-pin. the gain of the antenna, as reported in [24]. The width of a rectangular patch antenna is shorted to which significantly reduces the overall structure. The proposed work uses the DPS for the narrowband cell used to develop the proposed superstrate is nearly 27% crimpact than the reference [24] unit cell application but it is also effective for the wideband cross-polarization reduction without affecting it is rarely used to suppress the cross-polarization level. In addition, the size of the aperture type unit slot-haded patch is well-known to obtain the multihand [20], reconfigurable [21], and wideband [22] to improve the cross-polarization and the gain of the antenna respectively. However, the idea of and installation of the High Reflective Frequency Selective Surface (HRFSS) superstrate are reported as gain of a microstrip antenna. Two independent techniques-a shorted defected patch structure (DPS) In this work, efforts are made to improve the antenna cound cross-polarization isolation as well

## Defected Patch Antenna

some radiation occurs along the length of the patch, caused by the immediate higher-wide orthogonal along the length (L) (Figure 1) and radiates only at the edges of the width (W). In a practical situation Ideally, in a conventional rectangular patch antenna, the current covers a half-wavelength path



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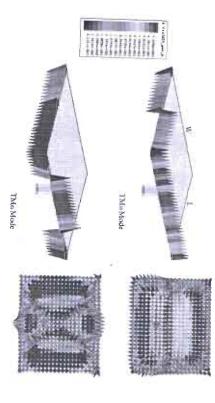


Figure 1. Electric field vectors in dominant  $TM_{10}$  and orthogonal  $TM_{12}$  modes (2.1 GHz)

The electric field variation along the length and width, and into the substrate is shown in Figure 1. However, in the IM<sub>102</sub> mode, the current travels along the width and radiates along the length, as shown in Figure 1. It is evident in Figure 1 that in orthogonal TM<sub>201</sub> mode, the strongest electric field is present at corners and at a position of W/2. If the position W/2 is shorted to the ground, the radiation at position of W/2. If the position W/2 is shorted to the ground, the radiation dominant TM<sub>10</sub> mode can be significantly suppressed, resulting in lower cross-polarization for the the feeding broation should be relocated. In this section, the correct is deployed on a rectangular patch, thus, anterma designed using a low-cost FN4 substrate of thickness 1.6 mm, and dielectric lass tangent (3) of the current along the width, which further enhance the co-cross-polarization toolation. The layout of designed using a resonant cavity model [1] Later, the patch and ground are shorted and the feeding linealion is optimized to obtain the best possible impedance matching.

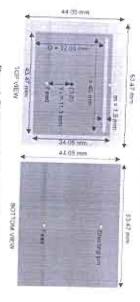


Figure 2. Configuration of the proposed antenna

The proposed design is evolved in two stages, shorting the patch and ground and incorporating the DPS. The impedance, reflection, gain characteristics of a conventional and the proposed antenna

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with optimized feeding location is shown in Figure 3. It is evident in Figure 3 that, the conventional aniterium and the proposed design achieves the best possible impedance matching at 2.1 and 2.2 GHz with different feeding location respectively. However, after implementing the shorting pin and DPS the gain of the activation is significantly reduced. Initially, a random slot is incorporated into the patch near the shorting pin and the cross-polarization of the rectangular patch antenna is analyzed against the position of the slot (O). The co and cross-polarization levels for the different elevation angles of the proposed antenna against the position of the slot (O) is shown in Figure 4a. It is found that, as the slot shifts closer to the shorting pin, the cross-polarization level improves significantly. However, beyond O = 32.03 mm, the cross-polarization level starts to degrade, thus, the position of the slot is set to this location. The co and cross-polarization levels have been studied for the elevation angles  $\phi = 90^\circ$ , and  $\phi = 135^\circ$  and found satisfactory, as shown in Figure 4a. The length of the slot versus the S11 parameter and antenna gain is shown in Figure 4b

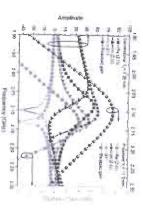


Figure 3. Impedance, reflection, and gain of the conventional and the proposed antenna

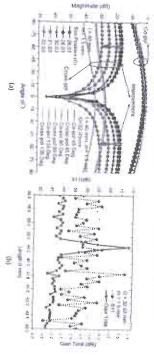


Figure 4. Parametric analysis at 2.2 GHz (a) Position of the slot (O) versus co and cross-polarization  $\phi=0^\circ$  (b) Slot length (I) versus S11 and gain total.

It is clear that the entire range of the slot length (i) satisfies the S11 parameter below —10 dB aftirough the gain of the antenna is extremely sensitive to the length of the slot. Thus, very precise optimization is required to achieve the best possible aritemia gain. Similarly, using high-frequency structural-simulator (HFSS) optimizes, considering the cross-polarization, antenna gain and reflection coefficient the width (m) of the slot is optimized to 1.5 mm. The co-and cross-polarization of the conventional and at the shorted and the final design in different elevation angles and the parametric analysis of slot width (m) and via radius are shown in Figure 5. The co-and angles and the parametric analysis of slot width (m) and via radius are shown in Figure 5. The co-and



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cross-polarization of the conventional and of the shorted and the final design in different elevation angles are shown in Figure 5a. It is evident in Figure 8 that the shorted ground with the DPS has exactlent isolation nearly below 30 dR in the binastide  $(\phi - D^*)$ . However, for the other elevation angles  $(\phi - D^*)$ ,  $\phi - 9D^*$ , and  $\phi - 135^\circ$ ) the shorted and sharted with DPS structure have a cross-polarization which is depicted in Figure 3b.c. It is found that the slot width and via radius is also affecting the CP-XP isolation. An optimum result is obtained for the slot width of 1.5 mm and via radius of 0.695 mm. While analysing the slot width effect, the distance between the shorting pin and DPS is also considered.

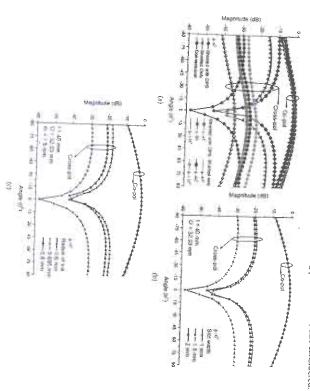


Figure 5. Paramotic analysis (a) Co-most polarization isolation of all three iterations, conventional at 2.1 GHz, shorted and shorted with defected patch structure (DFS) at 2.3 GHz (impedance matching was disturbed due to the shorting in the second heration); (b) Effect of via-radius on the cross-polarization.

The electric field vectors into the substrate and the surface current distribution of the proposed design are shown in Figure in. The suppression of the cross-polarization level can be explained by the electric field vectors into the substrate and the surface current distribution, as shown in occur at the feeding location as well as at the corners of the patch. It is apparent in Figure 6, the cross-polarization components that, after implementing the proposed techniques on a conventional rectangular patch antenna, resulting in an extremely poor times polarization and at the currens of the patch are suppressed shown in Figure 6 clearly depicts that the shorting pin attracts maximum current toward it reducing the current fluw at corners resulting in improved cross-polarization.

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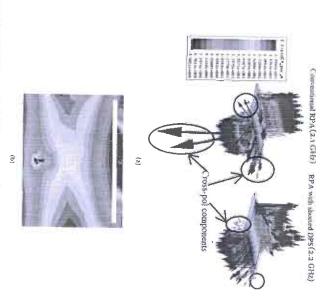


Figure 6. Cross-polarization analysis (a) Dominant mode electric field vectors of a conventional and the proposed design (b) Surface current distribution on the proposed among a

To analyse the effect of the shorting pin, and DPS structure, some basic parameters of the conventional antenna is compared with the proposed antenna, as presented in Table 1. It can be seen that, the antenna center frequency, and the bandwidth is slightly affected whereas the antenna gain is severely reduced. However, the proposed design achieves an excellent CP-XP inclution of 30 dB in the following section, a superstrate integrated technique is implemented to further improve the antenna gain.

Table 1. Comparison of the conventional, and proposed antenna structure

Conventional 2.1 Proposed 2.2	Structure Center Freque
\$\$ \$\$	ency – 10 dB Impedance Bandwidth (MHz)
1.8	Gain (dBi)
30	CP-XP Isolation (dB)

## Superstrate Integrated Antenna

The rectangular patch antenna with DPS has excellent co-and cross-polarization isolation. However, the shorting pin attracts the maximum current towards it which reduces current flow near edges of the width. Thus, a small amount of desired reductions along width is also being eliminated causing a degraded grain of strond i dBi. Hence, to enhance the gain of the antenna, an HRFSS-based superstrate built on 1 6 mm thick FR4 substrate is installed above the antenna, leading to contraction



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of the main lobe and improved gain. In this section, the superstrate is characterized using transmission parameters and the performance of the superstrate-integrated informa is discussed. The layout of the unit cell and superstrate is shown in Figure 7.

To analyze the unit cell, periodic boundaries are applied in the HPSS and the scattering parameters are extracted. Later, using the fullowing expressions the transmission (1) and reflection (1) coefficients and material parameters are calculated [27]

$$P = \frac{S_{1}^{2} + S_{2}^{2} - \tau}{2S_{1}^{2}}$$

$$\tau = P \pm \sqrt{P - 1}$$

$$T = \frac{S_{11} + S_{22} - \tau}{1 - (S_{11} + S_{22})\tau} \tag{3}$$

(2)

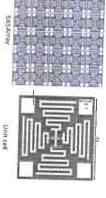


Figure 7. Layout of the supershate and unit cell (Units mm).

It is evident in Figure 8 that the proposed unit cell supports widehand from 2.1 GHz to 2.54 GHz with excellent transmission coefficient and reflection coefficient below –18 dB which thus ensures the Anomalous Ketraction (AR) [4]. The reflection phase of the unit cell is also presented in Figure 8 which clearly depicts the three zero-crossing points and also confirm the Anomalous Refraction. The supermitty of the proposed superstrate is presented in Table 3. It is clear that the proposed aperture type superstrate is compact and exhibits improved gain compared to the [23].

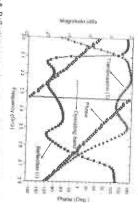


Figure 8. Reflection, transmission, and phase characteristics of the unit cell.

Table 2. Comparison of the preposed superstrate with existing superstrates.

Propused	Reference
0.4270	Size of the
Aperture	Type of Unit Cell
10.65 8.55	Realized Gain (dBi)
5.5	Substrate Thickness (mm)
	Dielectric Constant (s)

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compared with the simulated results in the following section the above concept, the prototype of the antenna structure is fabricated and the measured results are nearly 67%, so, a simulated total gain of 11.67 dBi is achieved, as shown in Figure 11). To validate cross-polarization, as discussed in the earlier section. The HPBW of the final design is reduced by gain and HPBW. However, the rectangular patch antenna with the shorted DPS has excellent co and of the superstrate-integrated final design can be clearly observed in Figure 10. The conventional are shown in Figure 10. The contraction of the HPBW and the enhancement of the antenna gain rectangular patch antenna and the shorted rectangular patch antenna with the DPS have nearly equal the rectangular patch antenna with the shorted DPS, and the superstrate integrated final design as shown in Figure 9. The 3D polar gain total of the conventional rectangular patch antenna, between the antenna and the structure is estimated to 34 mm (0.233  $\lambda_0$ ) through optimization, frequency and reflection coefficient thus, a precise optimization is required. The optimum distance higher gain of 10.65 dBi. In addition, the position of the superstrate significantly affect the resonant structure a small  $5 \times 5$  unit cell array ( $58.6 \times 58.6$  mm²) is utilized exhibiting sufficiently measured are optimized height exhibits higher gain/directivity. In this work, to limit the overall size of the the range of the unit-cell. It is clearly discussed in [23] that a larger superstrate array placed at The proposed antenna is matched to a narrowband from 2.16 GHz to 2.23 GHz which lies within



Figure 9. Arrangement of the antenna and the superstrate.

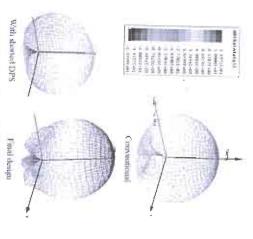


Figure 10. 3D taxaallon pattern of different configurations



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The size and the position of the antenna is analysed and shown in Figure 11. It is evident in the Figure 11 at hat as the size of the superstrate is increasing the grain of the antenna is increasing. Also, for the different superstrate size the center frequency of the overall design is also shifting. Thus, it is essential to precisely optimize the superstrate size before the implementation of the proposed concept. The simulated realized gain of the propose design against the position of the superstrate of size  $5 \times 5$  is shown in Figure 11b. From Figure 11b it is learned that the proposed structure exhibits maximum realized gain when the superstrate is installed at a height of  $0.43\lambda_0$ .

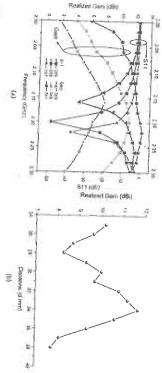


Figure 11. Optimization of the superstrate integrated design (a) Superstrate size versus gain and 511 (b) Superstrate height versus gain

## 3.1. Prototype and Measured Results

The prototypes of the superstrate, antenna and superstrate integrated antenna are shown in agreement between the simulation and measured results. The measured results have slight deviations/error ensuring the realization of the proposed design. To measured results have slight the antenna, four foam pillars of height 34 mm are pasted at the corners of the antenna, as shown Network Analyzer and the two-antenna method respectively. The radiation pattern of the antenna is the proposed antenna with and without superstrate are shown in Figure 13. It is clear in Figure 13 that the leading of superstrate is significantly shifting the frequency. A slight shift in the measured for the deviation in the simulated and measured SH is clear in Figure 13. The main reason in simulation model (ideal considerations,  $\varepsilon_1 = 4.4$ ) of the substrate and a practically used substrate. In addition, in the simulation, an ideal 50  $\Omega$  point is used to excite the antenna.

In practice, a subministure version-A (SMA) connector is used to feed the antenna, which includes some losses, leading to a slight mismatch between the simulated and measured results. However, this mismatch can be overcome using high accuracy substrate and feeding connectors. The proposed antenna has a measured 64 MHz. – ID dB impedance bandwidth covering from 2.169 GHz to 2.233 GHz. The broadside co-and cross-polarization radiation patterns of the conventional antenna, the proposed antenna without superstrate, and with superstrate at 2.2 GHz are depicted in Figure 14. It is evident from Figure 14 that there is a considerable agreement between the simulated and measured co-and cross-polarization levels of the superstrate-integrated antenna.

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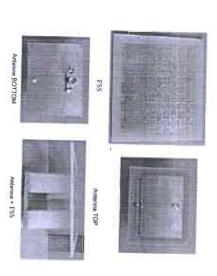


Figure 12. Prototypes of the superstrate integrated antenna

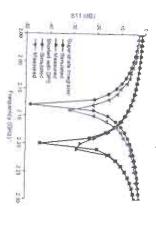


Figure 13. Samulated and measured S11 parameter of artelepsa element and supersumo integrated antenna

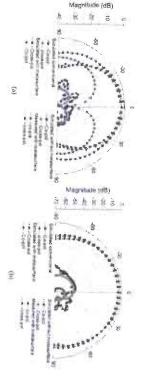


Figure 14. Breadside radiation pattern of the conventional, with and without metasurface integrated antenna if 1.2 Citiz (a) E-plane ( $\phi = 0^\circ$ ) (b) H-plane ( $\phi = 0^\circ$ ).



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dominant transverse nugnetic (TM)-mode, the cross-polarization of the patch antennas is extremely the cross-polarization level in the H-plane is degraded. However, due to the peopagation of the It can be seen in Figure 14a that, after the integration of the slot into the patch and superstrate

It is evident in Figure 15 that the integration of the superstrate is enhancing the gain of the antenna by nearly 9.65 dB1 achieving the peak realized gain of 10.65 dBi. minor improvement. The sumulated and measured realized gain of the antenna is shown in Figure 15. ensures the significant gain enhancement, as depicted in Figure 14a. Whereas, in the H-plane there is a half-power-beamwidth is reduced from 88° to nearly 40° after integration of the superstrates which and H-plane ( $\phi$  = 90°). Thus, similar agreement is also expected at  $\phi$  = 45°, and  $\phi$  = 135°. The E-plane agreement between simulated and measured co and crosspolarization levels in the E-plane ( $\phi=0^{\circ}$ ) pattern which is more severe at low power level measurement, as cross-polarization. There is a good power meter. The back radiations from the surroundings may also produce an erroneous measured This is due to the lower power level of the cross-polarization radiation and the sensitivity of the and azimuth planes, there are considerable fluctuations in the measured cross-polarization levels. have a good co-and cross-polarization isolation level in the azimuth plane. Moreover, for both elevation Figure : 4b However, due to the dominant transverse magnetic mode, the microstrip antennas always The measured cross-polarization level in the elevation plane is below \_30 dB, as shown in

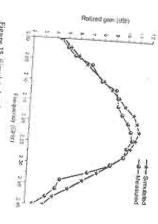


Figure 15. Simulated and measured realized gain

performance due to the higher operating frequency. In this work, both, gain enhancement and antennas [12–15] have moderate gain. However, the antenna proposed in [13] exhibits comparable cross-polarization improvement techniques are applied and the remarkable results are obtained. have moderate cross-polarization level of amund -15 dB. Similarly, the low cross polarization compared with existing work as reported in Table 3. It is evident in Table 3 that the existing work focuses either on gain enhancement or cross polarization reduction. The high gain antennas [4,6,8]HPBW. Thus, it can be used for directive secured communication applications. The proposed work is The proposed structure has excellent on and cross-polarization isolation, improved gath, and narrow

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Table 3. Comparison of the proposed structure

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2000	10.05	29.92	OF-			
940.0	75	1970	1	FIRES SULTER STATE	Shorted DIS	This work
0.2	2-	OR	30	Nor supplied	DGS	191
88.0	6.17		1	Not applied	DGS	
ET0	V/N	1	DE-	Not applied	DCs	Int
90	1			Visit applied	DCS	Strift
	21.75	15.6	-20.5	Zero-infractive-index metamaternal	Not applied	lol
3	14	N/A	-15	metamaterial	rvot applied	12
4.45	1526	NIA	200	Implemental	N	
18.77	981	16.3	1	chven	Not applied	M
	(tabi)		2	Phise gradient metastriace	Not applied	141
W×L×h(λ³) E/B (dR)	Cain	HPEW (°)	Cross-Pol (dB)	Gain Enhancement Technique	Reduction	Ref.

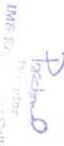
measured results show good agreement and thus validate the proposed tectoriques contraction of the radiation angle; hence, the antenna gain is improved. Finally, the simulated and level. To improve the gain of the inherma, an HRFSS is installed over the antenna element, resulting in shot need to be optimized to obtain the best possible radiation performance and cross-polarization cross-polarization level of a rectangular patch-based antenna. The position and dimensions of the slot into the patch-ground shorted rectangular patch antenna is an effective way to suppress the A superstrate-integrated low-cross-polarization antenna is presented. Loading the rectangular

Author Contributions: Conceptualization is done by A.S. Data curation is done by S.V. Formul analysis is done by A.S. and R.N.B. Investigation of the proposed week is done by A.S. under the supervision of R.N.B. The original deaft is written by A.S. and the revisions is done and editing is done by S.V. and E.N.B. Funding: This research received no external funding.

Conflicts of Interest: The authors declare no conflict of interest.

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Published, 15 May 2010

# Performance Evaluation of QAM for Improvement of BER

Balwant Singh =, Vinod Shokeen & Rishi Asthana

Wireless Personal Communications 109, 77–88 (2019)
230 Accesses | Metrics

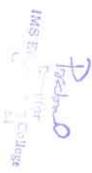
#### Abstract

This paper presents performance evaluation of the mary quadrature amplitude modulation (M-QAM). BER performance is evaluated on operation of The Binary coding. The Gray coding, Pulse shaping in raised cosine filter and Error correction using convolution codes. Simulation results shows the BER and SNR of M-QAM (M = 16, 64, 256 and 1024) for oversampling factor 1, 2, 3, 4 and 5. BER and SNR is related to spectral efficiency (SE) i.e. SE is the optimize use of spectrum for highest quantity of information can be trunsmitted with the least transmission errors. SNR and BER will increase as order of QAM increases. Improvement in BER shows that the increment in the number of errors.

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# EFFECT OF HPA BACK-OFF AND FILTER LENGTH ON 256QAM

pages 1445-1455

**DOI:** 10.1615/TelecomRadEng.v78.i16.30



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## ABSTRACT

The error vector magnitude (EVM) measure the performance of communication system. It is also known as relative constellation error (RCE). This paper is going to perform modulation accuracy along with spectrum emission mask and flatness on IEEE802.11ac waveform in terms of RMS EVM. Here a communication system model is designed with various parameters to perform simulation. 5 VHT (very high throughput) packets are used for transmission. Measurement of RMS EVM performed by varying filter length and high power amplifier (HPA) back-off for 256-QAM (256-quadrature amplifier modulation). This namer also shows the RMS EVM.





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#### Abstract

This paper presents resistorless realization of inverse filters using voltage differencing transconductance amplifier (VDTA). First, four topologies are proposed which provide inverse low-pass, high-pass, band-pass, and band-reject responses. Subsequently, a unified inverse filter is also derived by incorporating two switches in the combination of proposed inverse low-pass and inverse band-pass topologies. This topology is capable of providing inverse low-pass, inverse high-pass, inverse band-pass, and inverse band-reject responses by appropriate switch settings. The proposed inverse filter structures are electronically tunable and use only grounded capacitors. The behavior of the proposed filters is also investigated for nonidealities. To verify the functionality of the proposed inverse filter circuits, SPICE simulation is carried out using 0.18- $\mu$ m CMOS technology parameters from TSMC. The effect of deviation in the active and passive component values on angular frequency is tested through Monte Carlo simulation.

This paper was recommended by Regional Editor Piero Malcovati.

Keywords: Active inverse filter • VDTA-based inverse filter • resistorless inverse filter • unified filter

#### We recommend

Mixed-Mode Universal Biquad Filter Using OTAs Data R. Bhashar et al., Journal of Circuits. Systems and Computers 2019

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Characterization of a tunable optical filter based on a passive cavity for femiosecond lasers

## Detection of Congestive Heart Failure Based on Spectral Features and Extreme Learning Machine

Sulekha Saxena, P. N. Hrisheekesha, Vijay Kumar Gupta, Ram Sewak Singh

failure (CHF) subjects. Numerical experiments were being done on the combination of database sets as NSR-CHF, NSR-ER, and ELY-CHF subjects. The numerical results show that features at which was further applied to I-NLPELM bindary classifier. For this purpose, the HRV data were taken from standard database of than other features extracted by unto regression (AR) model and higher order spectra (HOS) spectral methods. p-value (< 0.001). Thus, third level of MSWP features are better third level of decomposition of HRV data sets MSWP shows lowest by ranking methods and then reduced to only one feature by KPCA having kernel function as radial basis function (RBE) Normal sinus rhythm (NSR),elderly (ELY) and Congestive heart and onto regression (AR) model. Top ten features were extracted multiscale Wavelet pucket (MSWP), higher order spectra (HOS) rate variability (HR1) signal by using spectral methods like tinear programming extreme learning machine (1-NLPELM). spectral investigation methods for congestive Heart Failure (CHF) analysis using ranking methods, Kernel Principal For this study, thirty different features are extracted from heart Component Analysis (KPCA) and binary classifier as 1-norm the classification performance of features derived from various Abstract: In this paper we proposed a novel approach to evaluate

Primeipal Component Analysis (RPCA), ranking methods index tetms: 1-norm linear programming extreme learning muchine (1-NLPELM)fligher order spectra (HOS),Kernel

## I. INTRODUCTION

progressive condition that affects the pumping of heart any other type of cardiac beam disease [2], CHF is a chronic Douths due to congestive heart failure (CHF) are higher than by diminiahing the risk factors, the developing CVD load on both people and healthcare professionals can be decreased [1]. assessed that over 75% of early stage CVD is preventable and developing world. The World Health Organization (WHO) novel hazard factors for cardiovascular disease, prompting a significant increase in cardiovascular disease throughout the which experience an adjustment in way of life that presents directivess. It is a noteworthy problem in creating manages about almost 33% of all deaths and prompring huge developing issue everywhere throughout the works, bringing Cardiovascular disease (CVD) is a notoworthy and regularly

Vijay Kumur Gupta, Electrosica, & Commutantino Engreeeing, Indipitatettii rigineering College, Charachon, INITA, Ram bowas, Singh, Electronics & Commutantication Engineering, (MS) Fruncering, College, Gharachon, UPA2015049, INITIA. Rectard Manuscript Received on June 15, 2019
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> Heart Rate Variability (HRV) analysis methods are used differentiable features (attribute), efficient classifier detection of CHF is utmost important and for this, various muscles which often leads to heart failure [3, 4]. Thus, early

young (YNG), elderly (ELY) subjects and cardiac non-linear domain methods has been proposed for HRV information [8-10] patients rading to possible early prognostic or diagnostic analysis showing dissimilarities between ECGs of healthy Various methods like time domain, frequency domain and sympathetic and, henceforward, sympathovagalbalance [5-7] which demonstrate a connection between parasympathetic, focuses on the QRS complex of the electrocardiogram (ECG) by figuring time intervals between progressive R pinnacles the autonomic nervous system (ANS). The HRV is controlled cardiovascular disease detection to evaluate the exercises of turned into a well known non-invasive method The Heart rate changeability (HRV) investigation has

oscillator under merital cardiovascular activities [15,14] belight than linear techniques since the heart is a chaptic disease detection [11,12] Nonlinear techniques are more Processing methods are used to extract information related to cardiac discuss diagnosis. Various linear and non linear is aneconomicmethad to enhance the detection speed of Computer-aided diagnosis is used for disease detection which

reduced number of hidden nodes[22]. models which are just interpretable. A linear programming of I-norm ELM (I-NLPELM) method is used in this work. The main advantage of I-NLPELM over ELM is that it leads to nuking them zero and consequently gives sparse ELM utilized to sort certain coefficients of the ELM model by regularization or penalty has been used in [21], as 1-norm is nicuracy might be decreased[17-20]. Thus, arbitrary miture of the ludden layer of ELM, the learning than traditional feed forward algorithms [15]yet because of that the learning speed of ELM can be multiple times faster of bin-medical signal examination [15, 16]. Despite the fact learning machine (ELM) has been widely utilized in the field disease. Recently, a new learning method called extreme binary and willi-class classification and prediction of cardiac Machine learning methods are broadly utilized for the

extracted by nutu regression (AR) model. fifteen spectral (can es derived from IRV right by using spectral investigation methods. Out of thirty features, five spectral features were In this work, initially thirty spectral features were extracted бу

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THE WAY THE TALK

compared to that of 13.788 ns and 15.202 ns for the WT-dtl2 and WT-dtl5 architectures, respectively architectures respectively. The maximum combinational path delay of the proposed architecture is 48,109 ns, as proposed architecture to 180,278 MHz as compared to that of 195,496 MHz and 121,038 MHz for the WT-db2 and WT-db5 ies, resources than the WT-db2 and WT-db5 architectures. Furthermore, the measurum operating frequency of the Similarly, in terms of slice registers, the progressed architecture communes, respectively, 21.39 percent and 75.61 pencent consumes 38.20 percent and 84.96 percent less resources than the WT-db2 and WT-db5 architectures, respectively. significantly less hardware as compared to the WT architectures considered. In terms of LUTA, the proposed architecture Moreover, from the synthosis results, it is concluded that the proposed architecture implementation inquires well as from the self-recorded database. As compared to the WT wavelet arthrecourse which result in distorted notions. architecture implementation results, to an inquireced performance for ECC signate taken from the Futusia Italabase as implementation, the Xilling Spartan-6 series EPGA platform is used. Simulation results show that the proposed transform architecture is designed and implemented for also and also wavelet types. For the proposed real-time VLSI hardware resources used, maximum operating frequency and maximum combination path delay. The Wavelet packet proposed architecture is compared to the wavelet transform architecture in terms of their signal denoising capabilities. In this paper, we propose the VISI implementation of a wavelet packet transform-based architecture. Moreover, the

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#### Kcywurds

Signal denoising: Wavelet architecture, Wavelet packet transform, VLSI, FPCA

Next >

Director

### 1, Introduction

or white noise, it is important to denotise the destruct nignal so that it can be interpreted correctly and useful information can be extracted. In an electrocardiogram (ECG) signal, power-line interference is a common phenomen. HERRACK C firms of quality and intelligibility. Noise can be a 50–60 ftr power-line interference, fun-noise, car-noise, habble-noise, The unwabled signal prewrit in an information-burning signal is referred to as notice. It degrades the signal-strength in IMS Engin - College

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Thermal stability analysis and performance exploration of asymmetrical duals a underlap spacer (ADXUS) SOF PRFET for legit performance circuit applications

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NISCAJR-CSIR, India

This paper explains that performance of asymmetrical duals should include (ADKUS) SO) FaFET (decide-D1) over the wide temperature range (200 K-450 K) amplification and the first dual the area temperature conflicted (CTC) between the displace the displace and SR performance at 20 medium designations of information admitted to VLS complete designations of information admitted to VLS complete designations of information admitted by VLS complete designations of information admitted by VLS complete designations of information admitted by VLS complete designations of the displace and designations of the displace of the d the real world with the agent world and enables the people and must sometimes (p<sub>ress</sub>) are subjected to snappis to evaluating the portionships of ADRUS SCI strict. For was temperature environment. The validation of a produce beauti performance of ADRUS SDI For ET gives an opportunity to design the missecone windop and digital components of retinue security assumes an extraction at which are desired environment. These ADRUS SDI For ET hisself components give the septimental or an about has the state of the component of the security of the second environment.

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Journal of Electromagnetic Waves and Applications Volume 33, 2019 - Issue 4



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## applications frequency ratios for multiple wireless hexa-band patch antenna with small Metamaterial based circularly polarized

Mukesh Kumar Khandelwal Praveen Chaurasia, Binod Kumar Kanaujia 🗷, Santanu Dwari &

Pages 520-540 | Received 15 May 2018, Accepted 08 Nov 2018, Published online: 02 Jan 2019

















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3.34, 3.54, 4.61, and 5.21 GHz with very small frequency ratio between two presented. The proposed antenna offers six frequency bands including 2.4, 3.06, In this article, a novel shaped hexa-band microstrip patch antenna (MPA) is

respectively. The proposed antenna also shows better radiation characteristics at all consecutive bands of the value of 1.275, 1.091, 1.059, 1.3022 and 1.1301,









#### AEU - International Journal of Electronics and February 2019, Pages 100-109 Communications

different wireless applications Design and analysis of seven-bands-slot-antenna with small frequency ratio for

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https://doi.org/10.1016/j.acue.2018.11.036

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#### Abstract

earried out by means of Ansys HPSS and simulated results are found to good agreement with the measured results. 1.17511, 1.0862 and 1.1263 is realized between the two consecutive bands. The designing of the proposed autenna is bands ranging from 3.42 to 3.68 GHz and 6.2 to 6.94 GHz. A very small frequency ratio of 1.97007, 1.15517, 1.0796. 4.02 GHz, 4.34 GHz, 5.1 GHz, 5.54 GHz and 6.24 GHz. The antenna also shows <u>circular polarization</u> in the two frequency in this paper, a low profile planar multihand stot antenna covering numerous wireless applications is presented. The proposed antenna resonates for seven frequency bunds curresponding to centre frequencies 2.54 GHz, 3.48 GHz,

#### Keywords

Multiband antennas Metamateria Lluter-digital capacitunce fooded keep resonator (IDCLLR) Circular Polarization Small Dequency ratio

coplanar saxtitude (CPW) led aperture-coupled stat dipole anterna for trichand operation has been presented in [5]. In in predance resonator and parasitic slots have been ased to obtain dual, triple and broadband operation. A is, multiple metal strips has been used to obtain tri-band operation in CPW-fed bow-tie artefan. In [7], the steppedused to others dust hand operation. In [1], the offset of slots for obtaining triple hand operation has been presented, A untermas have been proposed for dual, riple, quad and pents band operations [1], [3], [4], [5], [6]. In [7], a radul star is frequency at the same time and also reducing the size of multifunctional device. In the last decades, a number of Bluetoeth, WLAN, WEMAX, RFID. <u>Letuper</u>, etc. Muhibund antennas have emerged as a solution to cover more than enc element used in the transmission and reception of high-frequency signals for multiple wireless applications like In a single electrosic module to achieve ministration and portability. In modern handheld devices, antenna is a major In the existing era of ultrafast wireless communication, at a very much needed to combine various functions and services













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# Journal of Statistics and Management Systems >

Volume 22, 2019 - Issue 2: Recent trends in Data Science, Business Intelligence and Applications



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## A hybrid SVM-NARX based prediction method for Indian wind power sector

Pages 363-378 | Published online: 08 Mar 2019 Vijay Kumar 🗷, Yash Pal & Madan Mohan Tripathi

**६** Download citation ■ https://doi.org/10.1080/09720510.2019 1580910

**≦6** Citations

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#### Abstract

method for prediction of wind power and its speed up remarkable certainty availability in given time span. To overcome such challenges, the prediction of wind energy with certain accuracy is very essential. This work suggests a hybrid based faces main challenges in term of its unpredictable nature, frequency stability and dependence on polluted conventional sources. Although wind power generation not generate any harmful emission and has some potential to reduce the energy. In this regard wind can be one of the cleanest and pollution free that will pollution free sources of energy in term of nonconventional and sources of gi human being and global warming, today people of the world pay more attent much and supply problem become critical issue of energy supplying farms. Due to rapid decreasing of current available conventional sources and its harmful effect on Today energy demand in different sector of the world has been increased very

available data set to train and validate of SVM-NARX model accuracy. This hybrid method considers the most useful data set from different

International Journal of Recent Technology and Englueering (JJRTE)
ISSN: 2277-3878, Volume-7, Issue-65, March 2019

## Short Term GA-NFIS based Hybrid Method for Prediction of Wind Speed & Power in Sustainable Power Generation

Vijay Kumar, Yash Pal, Madan Mohan Tripathi

wind power and data is collected from Indian wind power sector mile. Results of proposed method are compared with sun. accuracy up to certain level which will be acceptable for power generation. In this work CA-NFIS is used for forecasting of with the help of correct prediction technique / method that have challenge cannot eliminate completely, but it can be minimize of the renewable scup for power generation. In India currently wind power contribution in renewable power sources is very high so, wind may be a better solution for power generation. Power generation from wind puts many barriers in term of intermittent nature, frequency and availability at all places with certain speed that is able to power generation from wind mills. Although above expanding major portion of their energy fund into development renewable sources such as wind power and solar power by alternative. So, many countries started power generation from ovallability, storage and security; to mitigate the above problems power generation from renewable sources may be better many challenges such as environment pollution, continuous population, so it is very challenging task for power generating company to maintain balance between supply and demand. The Currently power generation from the conventional sources faces have better social- economical countries that consume more energy per capita are supposed to different sectors are increasing with continuous increasing along with conventional sources. Today power demand in attention towards power generation from renewable sources grid, forced the world power generating company to divert their Abstract: Additional power requirement and Integration of non conventional energy sources for power generation into snarr clashe soft computing methods such as NARX, SYM-NARX status and living standard.

Index Terms: Prediction, Wind power, Genetic Algorithm, Neuro- Fuzzy Inference System, Speed prediction, Absolute ercentage Error (APE).

#### . INTRODUCTION

may be one of the good alternative solutions [1]. The main of interwable share in power generation above problems can be reduce up to some extent. For this purpose wind power of balance between demand and supply while mauring the minimum possible pollution. By increasing the contribution its limited storage, pollution So, there will be requirement conventional method of power generation or sources due to current requirement of energy we cannot depend only on its proper supply from different sources has become serious industrialization in the world extremtly power demand and issue for the whole country of the world. To suifill the growing population along with

> conclusion. The result communicates that proposed comparison with others method and last section tells the GA & NFIS, section 5 provide the knowledge of basic error describes the forceasting procedure of suggested method by method provide better results compare to other. parameters related to prediction, section 6 shows results. section I give the brief introduction, section 2 discuss about utilized [4] [5]. Paper is distributed into 7 section such as method, NWP, AI based methods Depending on situation about Neuro-Fuzzy Inference System (NFIS), section and requirement of time interval different methods are ARIMA model, Persistence method, Physical, Statistical available in the field of forecasting such as ARMA / genetic algorithm (GA), section 3 provide basic information error [2]. Now days many different methods/ techniques are technique / method that will predict speed with minimum above point there will be requirement of such types of reflect considerable error in power calculation. Keeping the nature with varying speed and it can be minimize up to certain acceptable level with suitable prediction of wind power on speed, very small error in speed prediction will generation economically. Due to highly dependency of wind speed with good accuracy that will enhance power problem of power generation from wind is its unpredictable

#### Ξ ARTIFICIAL INTELLIGENCE BASED METHOD (ANN)

can be mathematically modeled through equation I. of other conventional methods. In modeling time series data reflect a relationship to the previous value. NARX model (NARX), in which present exogenous based input value result for time series data in different time slots with respect generally we use nonlinear autoregressive exogenous model currently it is also apply in the field of wind parameters variables during training process [7]. ANN provides better save the computing time by minimizing numbers of prediction like speed and power [6]. ANN has enpublify to was primarily applied on load & price forecasting, but Before the regulated electricity markets Neural actwork

$$R_m = P(x_{c_1} x_{c_2} x_{c_3} m_{c_1} m_{c_1}, m_{c_2}, m_{c_3}) + E,$$
 (1)

Modeling parameters of the network can be expressed by such as inputs, hidden and corresponding to output variable & E, error. Baric Multilayer (3- layer) ANN is shown in figure I this network comprises of different layers Here x, represent variable of interest, m determination

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Mr. V. Kannar, Valuesal Institute of Technology, Kursk Letra

Dr. Yaith Pal Professor to The EED, National Institute of Tribbatogs

Dr. Millan Milhan Tripartil, Professor in the EDD Lichter backupied University, New Delhi

expression 
$$(R, t) = (R^{(1)}, t^{(2)}, t^{(2)})$$
 (2)

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> Indicators Using Fuzzy Logic: A Case Study of Indian Hydropower Projects Sustainability Assessment Considering Socio-environmental and Economic

Article type: Research Article

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Engineering Department, National Institute of Technology. Kurukshetra, Haryana, India Affiliations: [a] SREE, National Institute of Technology, Kurukshetra, Haryana, India I [b] Electrical

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tool that can be applied for sustainability assessments of planned as well as already constructed i.e. economic, social and environmental considering that all three indicators have an equal impact on using the weighted sum method and fuzzy logic. The methodology is bused on three dimensional criteria sustainability. The paper will be a lighthouse for future planners and researchers in the Indian context as a factors too. In this paper, an attempt is made to evaluate the sustainability of Indian hydropower projects environmental and social impact on society. The sustainability assessment of power projects mostly has the potential to fulfill the demand to quite an extent. Hydropower development has economic, considers power generation whereas hydropower sustainability depends on social and environmental wormpower project. Abstract: There is a rapid expansion of energy demand in India. Hydropower as a renewable energy source

Keywords: Hydropower projects, sustainability, economic indicator, social indicator, environmental

DOI: 10.3233/AJW190013

idural-of-water-environment-and-pullipport, vol. 16, no. 2, pp. 1-7, 2019 Journal: Asian Journal of Water. Environment and Pollution (Impr//surems amoss comselvation)

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وفر والمراقعة والباران كالعقاط الحالية كمك مهم تطاريسانه يتكسطسطية لياليستينطية والمجاهرات suth that is one was the making

CHF subjects. function and achieved an accuracy of 98.17% for NSR-CAD, 100% for NSR-CHF and CADkernel function and OSELM binary classifier having Sigmoid, RBF and Sine activation show a clear difference in combination of database sets by using GDA having RBF, Gaussian database sets such as NSR-CAD, CHF-CAD and NSR-CHF subjects. The simulation results (NSR), CHF and CAD subjects. Numerical experiments were done on the combination of of proposed method. HRV data were obtained from standard database of normal sinus rhythm Deviation (SD1/SD2) were extracted from Heart Rate Variability (HRV) signals. For validation Hurst Exponent (HE), Permutation Entropy (PE), Approximate Entropy (ApEn) and Standard Complexity (LZ), Sinai Entropy (SIEn), Improved Multiscale Permutation Entropy (IMPE), Entropy (BBEn), Sample Entropy (SampEn), Dispersion Entropy (DISEn), Lempel-Ziv Dimension (CD), Detrended Fluctuation Analysis (DFA) as DFA-lpha1 and DFA-lpha2, Bubble coronary artery disease (CAD). For this analysis, 13 nonlinear features as Correlation Sine activation function as binary classifier for detection of congestive heart failure (CHF) and online sequential extreme learning machine (OSELM) having Sigmoid, Hardlim, RBF and analysis (GDA) as feature reduction scheme with radial basis function (RBF) kernel and the In this paper, we propose an automated approach that combines the generalized discriminant

Keywords: Online sequential extreme learning machine.

Dispersion entropy Generalized discriminant analysis • Lempel-Ziv complexity • Bubble entropy •



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## Detection of Congestive Heart Failure Based on Spectral Features and Extreme Learning Machine

Sulekha Saxeua, P. N. Hrisheekesha, Vijay Kumar Gupta, Ram Sewak Singh

muscles which often leads to heart failure [3, 4]. Thus, early

than other features extructed by auto regression (AR) model and ELV-CHF subjects. The numerical results show that features or third level of decomposition of HRV data sets MSWP shows lowest failure (CHF) subjects. Numerical experiments were being done on the continuation of database sets as NSR-CHF, NSR-ELY, and which wasturiner applied to 1-NLPULM binary classifier. For this purpose, the HRV data were taken from standard database of Normal sinus rhythm (NSR), olderly (ELY) and Congestive heart p-value (< 0.001). Thus, third level of MSHP features are better and anto regression (AR) model. Top ten features were extracted by ranking methods and then reduced to only one feature by KPCA having kernel function as radial basis function (RBF) higher order spectra (HOS) spectral methods multiscale Wavelet prochet (MSWP), higher order spectra (HOS) rate variability (HRV) signal hy using spectral methods like For this study, thirty different features are extructed from heart linear programming extreme learning machine (I-NLPELM), Component Analysis (KPCA) and hinary classifier as 1-norm (CHF) analysis using ranking methods, Kernel Principal the classification performance of features derived from various spectral investigation methods for congestive Heart Faiture Abstract: In this paper we proposed a navel approach to evaluate Computer-aided diagnosts is used for disease detection which internation [8-10].

focuses on the QRS complex of the electrocardiogram (ECG)

cardinavascular disease detection to evaluate the exercises of turned into a well known non-invasive method Heart Rate Variability (HRV) analysis methods are used. differentiable features (attribute), efficient classifier detection of CHF is utmost important and for this, various

B

The Heart rate changeability (HRV) investigation has

analysis showing distimilarities between ECGs of healthy young (YNG), elderly (ELY) subjects and cardiac non-linear domain methods has been proposed for HRV Various methods like time domain, frequency domain sympathetic and, henceforward, sympathovagalbalance [5-7] which demonstrate a connection between purasympathetic. by figuring time intervals between progressive R planacles the nuttonomic nervous system (ANS). The HRV is controlled

anticonomic medical to enhance the direction speed

Index terms: 1-norm linear programming extreme learning machine (1-NLPELM), higher order spectra (HOS), Kernet Principal Component Analysis (KPCA), ranking methods

## I. INTRODUCTION

oscillator under normal cardiovascular activities. [13,14] helpful than linear sechniques since the heart is a chaosic disease detection. [11,12] Nonlinear techniques are more processing methods are used to extract information related to cardiac disease diagnosis. Various linear and non linear

progressive condition that affects the pumping of heart any other type of cardiac heart disease [2] CHF is a chronic Deaths due to congestive hear: failure (CHF) are higher than both people and healthcare professionals can be decreased [1] by diminishing the risk factors, the developing CVD load on assessed that over 75% of early stage CVD is preventable and developing world. The World Health Organization (WHO) novel hazard factors for cardiovascular disease, prompting a significant increase in cardiovascular disease throughout the which experience an adjustment in way of life that presents drearmess. It is a noteworthy problem in creating nations about almost 33% of all deaths and prompting huge developing issue everywhere throughout the world, bringing Curdiovasculur disease (CVD) is a noteworthy and regularly

Safekta Saxein, Elicizical d. Pactionics Engineering DAS Engineering College, Crisishhad, UF, CHIGON, NEDIA. Revised Manuscript Received on June 15, 2019 the Kurner Gupta, Productions & Communication Communication N. Hrtsheekascha, Cartipus Director, Chindigun Enguneering College

than Sensk Singh, Elementes & Communication Engineering, the property of Communication Engineering, the property of College, Chazarteat, UP (201809), INDIA.

reduced number of hidden nodes[22] main advantage of 1-NLPELM over ELM is that it leads to models which are just interpretable. A linear programming of making them zero and consequently gives sparse ELM utilized to sort certain coefficients of the ELM model by regularization or penalty has been used in [21], as 1-norm is accuracy might be decreased[17-20]. Thus, 1-norm arhitrary nature of the hidden layer of ELM, the learning of bio-medical signal examination [15, 16]. Despite the fact 1-norm E(M (1-NLPELM) method is used in this work. The then irraditional feed forward algorithms [15]yet because of that the learning speed of ELM can be studiable times faster discusse. Recently, a new learning method called extreme learning muchine (ELM) has been widely utilized in the field broary and multi-class classification and prediction of cardiac Machine learning methods are broadly utilized for the

extracted by auto regression (AR) model, fifteen spectral derived from HRV signal by using spectral investigation methods. Out of thirty features, five spectral features were In this work, initially thirty spectral features were Patrician

multiscale Wavelet packet



Published, 20 May 2020

language on Kaldi toolkit recognition system of Punjabi DNN based continuous speech

lyoti Guglanı 🗢 & A. N. Mishra

International Journal of Speech Technology, 24, 41–45

252 Accesses | 2 Citations | Metrics

#### Abstract

continuous Punjabi speech recognition system. to a 2-g model on the Kaldi toolkit for the and 3-g gives a lower word error rate as compared lower word error rate than the monophone model gives better results. The triphone model gives a Out of MFCC and PLP features, the MFCC feature performance as compared to Dan's DNN model. further Karel's DNN model gives better recognition system drastically improves using DNN, and Performance of the automatic speech recognition for the Punjabi language is implemented. hybrid Deep Neural Networks on the Kaldi toolkit recognition systems. Speech recognition through Deep Neural Network techniques in speech This paper demonstrates the effect of incorporating

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Biomedical Signal Processing and Control You me fill January 2021 102221

ECG signal denoising Design and analysis of improved high-speed adaptive filter architectures for

Martin Chandra 190, Aprilla Soci 190, Ankto Anand 191. Australia ja / A ca

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#### Highlights

- Improved high-speed adaptive filter-based demoising architectures are proposed.
- Proposed such decrures are compared with existing adaptive filter-based Trepresentation and the second
- Proposed architectures faculitate design flexibility in chases of step-size purameter.
- Input signals can be processed in floating-point format using proposed architectures
- Proposed architectures are also compared with wavelet-based denoising
- Significantly less hardware resources are required by proposed architectures

proposed high-speed adaptive filter architectures require significantly loss hardware as compared to sitos-of-the-arc high sullability for low-cost high-performance demoising applications in medical field. Moreover, it is observed that the effectiveness of the proposed architectures in efficiently denoising ECG signals in mossy exeminiments and prime their allow processing of tuput signals to fixed-point format as well as lloating poort format. Simulation results exhibit the implementations, the proposed architectures facilitate design floodbility in choice of the step-size parameter and also than existing adaptive filter architectures and wavelet-based architectures. As compared to the existing adaptive filter art wavelet-based denoising architectures. The proposed adaptive filter implementations are found to perform better implementations is analyzed and compared with that of the existing adaptive filter architectutes as well as state-of-thethe XIIIms Vistox-6 series FFGA platform. The performance of the proposed DE-RDLMS, TDE-RDLMS and TE-RDLMS In this paper, improved high-speed adaptive files-based denoising architectures are proposed and implemented using ravelet-based architectures

Multi-function Inverse Filter Research Paper | Published 26 June 2020 Electronically Tunable VDTA-Based

Praveen Kumar, Neeta Pandey 😂 & Sajal K. Paul

Electrical Engineering, 45, 247-257 (2021) <u>Iranian Journal of Science and Technology, Transactions of</u>

82 Accesses | Metrics

#### Abstract

voltage. values, oxide thickness and transistor threshold under simultaneous variation in passive component are performed to study performance of the proposal performance of proposal. Monte Carlo simulations operation, total harmonic distortion and noise technology parameter are carried out to examine SPICE simulations using TSMC 180 nm CMOS to filter parameters through bias currents of VDTA grounded capacitors and adds electronic tunability switch settings. The proposed circuit uses only pass, and inverse band reject are achieved through inverse low pass, inverse high pass, inverse band proposed in this letter. Various responses namely based multi-function inverse filter circuit is differencing transconductance amplifier (VDTA). An electronically tunable realization of voltage



## Automated Bearing Fault Diagnosis using Packet Features of Vibration Signal and Gaussian Support Vector Machine

International Journal of Recent Technology and Engineering (JJRTE)
ISSN: 2277-3878, Volume-8 Issue-68, March 2020

Rajeev Kumar Chauhan, Dipti Saxena, Jai Prakash Pandey

Specificity (SP) or true negative rate, accuracy (AQ) and positive prediction value (PPF) of 100, 98.50, 100 and 99.67 % for inner receiving (IR) and, AC 99.49, SE: 100, SP: 98.78 and PPF! 99.87 for ball bearing (BB) at 0.18 mm diameter faults. performance parameters as sensitivity (SE) or true positive rate, detection of bearing fault. The experimental results show that new automated diagnosing approach attained dessifter of rolling bouring. For this investigation, first, wibration signal generated by volling bouring was distinceprated to five levels employing wawder packet (WP) medical Sixty three logarithmic chosen. The top ten features were reduced to a new feature using GDA for effective detection and then applied to GSVM for disintegrated vibration signals. After this, sixty three features were ranked by Bhatucharya space and top ten LWPFs were wavelet packet features (LWPFs) were taken out from five level support vector machine (GSVM) to accurately detect the defects Bhattacharyu space ranking method and dimensional reduction method as general discriminate analysis (GDA) with Gaussian article presents an adaptive approach that is based back prices and therefore the nonscheduled down time. This Abstract: Effective detection of the bearing fault and specifically performance dilapidation assessment of a bearing is the topic of intensive analysis that may scale Abstract: Effective detection

(BB) defect, Gaussian support vector machine, General Discriminate Analysis, inner race (IR), wavelet packet. Keywords: Bhattacharya space ranking method, ball bearing

## I. INTRODUCTION

frequent faults in induction machines around 42%, states faults nearby 37% and rotor failures approximately 10% a rotating machine are solling clement bearings. A bearing failure can result in a complete machine breakdown motin reliability study [1], bearing faults are the foremest resulting in unintertaked production process interrigition and herefore, failure to detect The most critical but vulnerable mechanical components in loss According to IEEE induction

be supervised on a pricedy basis to maximize the utilization rolling bearing elements is of prime importance and should

of the induction motor's operating life. For this, efficient detection technique and learners (attributes) taken from

Revised Matturenty Received on March 5, 2026
Reliefy Kussar Chaobian is with Earth(a) & Felorosics Engineering
Department. July Engineering College, Contachnal-201000 (1991) India
of Contact No. 1 9819875478573 control number folding graditions. 9020) i (Krinettem) heda, (r-mai), mjitoxalgmail.com) Jai Prakatab Pandoy is with Floatical Fugotering Department, KNIT, Sakaupa-2/2001 (CD) tella (r-mail: ourplande)/sireafflund.com) Dipri Savena is with Electrical Togowitzog Department MNTL Inquis 80.D47 (Kajawihan) India (re-mail: diplocaligmail.com)

classify the faulty and healthy bearing and particularly the degree of performance degradation of the rotator boaring alternative northness factors, it's terribly troublesome to rotating bearings as high speed, friction, over loads and (T-F) domain. Though, due to the chaos operating state of vibration signals in time, frequency and time-frequency diagnosing techniques extract attribute (features) from from vibration signal and efficient classifier Ancient From the above cited references we can notice that there diagnosis. Widods et al. [12] extracted nonlinear features from vibration signal and support vector machine (SVA) to accurately and automatically, feature extraction methods are two vital aspects of faults assessment and detection classify faults of bearing used in induction motor. improve the detection performance of a bearing fault of vibration signal to a more effective nonlinear features and principal component analysis, which transmutes the features of [11] obtained a fault diagnosing by evolving kernel performance. Pan et al. [10] employed a hybrid model as support vector and Fuzzy c-means for bearing fault vibration signal. Yu et at. [9] suggested a sneple and efficient machine fault diagnostic algorithm supported ou Gaussian Mixture Model (GMM), the simulated results dilapidation in a bulky dimension rotating machine, Sun et presumted that GMM could reliably detect not solilary type of bearing fault and the degree of degradation in machine bearing faults performsnee degradation using features from with neural network classifier to analyze the degree Xu et at. [8] suggested a Fuzzy Model Controllar (FMC) random signal as, noise and signal modulation [7]. For this, signals generated from bearings is generally affected by researchers in recent years [5], [6]. The nonlinear vibration signal has become one of the leading parameters for high cost and noise impact, these detection techniques are not acceptable. Bearing failure analysis using vibration can be used to detect bearing defects [3], [4]. But due to observance, oil analysis and stator current methods, which extensively. There are old methods like, temperature element bearing fault analysis has been used in large dimension machines [2] Nowadays, rolling bearing can hundle very large haids with low friction and small and modernic dimension machines while the fluid Commonly, there are two types of bearings; rolling element and fluid bearing. The rolling element bearings are usually used for complex moment loads with lesser friction and in vibration signal of rolling bearing used in motor are needed applied





# Soft computing based techniques for comparative analysis of wind speed and power prediction

Views CrossRel changing in duly Alimetric

Vijay Kumar 🗷 Yash Pal & Madan Mohan Tripathi Pages 1-11 | Published online: 06 Feb 2020

References

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### Abstract

Currently industrial, agricultural, residential and economical development of any country mostly depends on energy availability and per capita energy consumption by its peoples. Today power demand in various sectors are increasing with increasing population, so it is very challenging task for power generating compute to maintain proper balance of demand & supply. Currently most of the countries of the world uses fossil fuel as a main source for power generation, so pollution / become a very serious concern all around the world, to counter this problem there is strongly need of such types of energy sources that are capable to generate adequate amount of power with lowest possible pollution, cost and highly reliable and integration of renewable energy sources into smart grid, forced the power generating companies to divert their attention towards power generation from



### Abstract

Hydropower is an important renewable energy source that contributes towards maximum electricity generation among all the renewables. Apart from being dean, efficient, and low generation cost technology, hydropower serves and benefit community in multiple ways. The study aimed to assessed hydropower technology for climate change mitigation and sustainable development in comparison with the wind, solar PV, geothermal, and biopower using Simple Additive Weighting (SAW), a multicriteria decision making (MCDM) method. The indicators used for assessment of renewable energy technologies were installed capacity, efficiency, levelized cost of electricity (LCOE), greenhouse gas emissions (GHG), SO2, and NO2 emission during the full life cycle, land requirement, and Jobs/ year. Out of the eight indicators used, four indicators are environmental indicators that contribute to eliminate change. All the indicators have been assigned equal weights. The

assessment ranked hydropower as the most sustainable electricity generation

IMS Engineering College

Review | Published: 20 January 2020

Risk management of hydropower projects for sustainable development: a review

Anuja Shaktawat 🖾 & Shelly Vadhera

Environment, Development and Sustainability, 23, 45–76 (2021)

883 Accesses | 7 Citations | Metrics

### Abstract

efficiently, there arises a strong need for equity and manage the critical risks more preserving the environment. Hence, to assure this to techno-economic development along with social impacts. Sustainable development is related development due to associated environmental and critical and unavoidable issue in hydropower to project failures. Sustainability has also become a that too at a higher cost and in extreme cases lead ultimately cause delays in the availability of power and safety. These risk factors, if not managed in time, lead to schedule and cost overruns which political, technological, financial, climate, natural, environmental, social, geological, regulatory, to various uncertainties and risks such as economic, These characteristics expose hydropower projects huge investment and have long gestation periods. Hydropower projects are site specific which require



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Original Paper | Published 30 August 2015
Biocidal polymers: synthesis, characterization and applications of transition metals polychelates of formaldehyde-barbituric acid resin

Raza Rasool & Sumaiya Hasnain

Iranian Polymer Journal 24, 891–900 (2015)
263 Accesses | 3 Citations | Metrics

### Abstract

studied by TGA in a nitrogen atmosphere upto Thermal behavior of these metal polychelates was show the formation of 1:1 [M:L] metal polychelates polymeric Schiff base. The elemental analysis data effective antimicrobial nature as compared to the diffusion method. Metal polychelates showed more neoformans (fungi) was done by agar wellalbicans, Microsporum canis, Cryptococcus aureus, Bacillus subtilis, (bacteria) and Candida screening against Escherichia coli, Staphylococcus thermogravimetric analysis (TGA). Antimicrobial properties were studied by elemental, spectral Cu(II) and Zn(II) ions. Structural and spectral synthesis of polychelates of Mn(II), Co(II), Ni(II), (FTIR, 'HNMR and UV-vis) and in acidic medium was synthesized followed by Schiff base with barbituric acid and formaldehyde Novel polymeric ligand by polycondensation of

Review | Published: 13 August 2015

Natural compounds: Role in reversal of epigenetic changes

Ruchi Agganval, <u>Meenakshi Jha, Anju Shrivastava</u> & Abhimanyu Kumar Jha 🗢

 Biochemistry (Moscow)
 80, 972–989 (2015)

 213 Accesses
 20 Citations
 Metrics

### Abstract

histone acetyltransferases, DNA methyltransferase regulating the activity of histone deacetylases, reverse cancer-related epigenetic aberrations by potential of natural chemopreventive agents to cancer treatment. This review summarizes the mechanism as a common molecular approach for potential of natural compounds targeting epigenetic epigenetics have shown the anticarcinogenic advancements in the rapidly evolving field of cancer any change in the DNA sequence, is recognized as a key mechanism in cancer cell metabolism. Recent (miRNA) expression that alter phenotype without histone modifications, and alteration in microRNA which includes changes in DNA methylation, The reversible process of epigenetic regulation, leading to genome rearrangements and instability that occur via genetic and epigenetic alterations, by alterations in the expression of multiple genes The hallmarks of carcinogenesis are characterized

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Published 26 July 2015

Natural Compounds: DNA Methyltransferase Inhibitors in Oral Squamous Cell Carcinoma

Meenakshi Jha, Ruchi Aggarwal, <u>Abhimanyu Kumar Jha</u> & <u>Anju Shrivastava</u> &

Applied Biochemistry and Biotechnology, 177, 577–594 (2015)

415 Accesses | 6 Citations | 1 Altmetric | Metrics

### MSTract

ability have also been proposed which could be screened for their demethylating natural compounds. In addition, new compounds genes in OSCC and its possible reversal using promoter hypermethylation of tumor suppressor suppressor genes. This review encompasses the lead to reactivation of the inactivated tumor their ability to cause demethylation which could showing hypermethylation have been discovered in emphasis is on using the natural compounds for OSCC. Since these changes are reversible, a lot of for OSCC as genetic changes. A plethora of genes changes have been found to be equally responsible endogenous and environmental factors. Epigenetic multistep process which is modulated by several Oral squamous cell carcinoma (OSCC) is a

Available online on www.ijppr.com

International Journal of Pharmacognosy and Phytochemical Research 2014-15; 7(1); 175-180

Research Article

ISSN: 0975-4873

# Activity of Acokanthera oppositifolia and Leucaena leucocephala Evaluation of Total Phenolic, Flavonoid Contents and Autioxidant

Preeti Sharma, Savita Chaurasia

Department of Biotechnology, IMS Engineering College, NH-24, Adiyaanik Nagar, Ghazabad Uttar Prodesh -201009

Available Online: 1" February, 2015

of pathological disturbances such as, inflammations, cancer, diabetes and arthritis. Therefore the present study was Objective The generation of reactive oxygen species and free radicals at human is suggested to contribute to the wide range performed to evaluate the unitoxidant potential of Acokanthera oppositifolia and Lengueria leucocephala

oppositifolia acetone and L. levcocephala methanolic extract was most effective one with an inhibitory effect of 83.22 % ±.03 and 85.47 % respectively at i.0 ma/ml (ICs 0.12 & 0.25 ma/ml). Conclusion:All the extracts/Loppositifolia and L. medicinal agent. Phenolic and flavonoids contents are suggested to be responsible for antioxidant potential leucocryshalaleuves is potentially good source of antioxidant, which are found to be quite premising as a multipurpose activity with  $IC_{\infty}$  0.065 and 0.112 mg/ml respectively.Fe (III) to Fe (III) reducing capacity with  $IC_{\infty}$  0.23 and 0.42 mg/ml and superoxide anion scavenging potential with  $IC_{\infty}$ 0.425 and 0.675 mg/ml. In scavenging of hydroxyl radical A. different test including metal chelation, reducing power, superoxide anion scavenging and by bydroxyl radical scavenging assay. Results:Total phenol content ranged from 7.51±02 to 12.06±.03 mg GAEg\* (Gallic acid equivalent) for all extracts methanolic extract of A. opposity of the anderboroform extract of L. forcocephala exhibited better Fer chelliting leucocephalu. All the extractsunder study exhibited good antioxidant activity in concentration dependent mans A oppositionand 13,40±08 to 28-19±02mg GAEg for L. leucocephalawhile total flavonoid ranged 0.373±0.04 to reaction and flavonoid controls were determined by AICI3 assay. The authorition potential was determined using four Methods. Three different solvem extractsof both plants were used in the study to evaluate their TPC by using Folin Coilteau (Quercetin equivalent) for A.oppositifolia and 2.806±0.05 to 3.587±003 mg QEg for L

Keywords: Phytochemicals, Superoxide Anion, Hydroxyl radical, chelation, flavonoid, Phetiolic

### INTRODUCTION

requires the presence of autioxidants or the free radical cancer. Therefore, the prevention of the above conditions to malformations. Free radicals damage that affect the integrity of genome and thus leading linked to multiple mutations related to oxidative DNA deaxyribose. The mechanistic study of different forms of cancers revealed that its development and progression is aging and arthritis.5. Exposure of DNA to free radicals causes extensive strand breakage and degradation of cardiovascular, neurodegenerative diseases, and premature constituents present in herbal drugs are a part of the waveniling molecules in the body. results in human promotogra and other disorders such as and function of cell constituents and membranes and can oxygen species (ROS) may easier afteration in the structure generated... Rapid production of free radicals and reactive radicals (hydroxyl radical (OH) and superoxide anion are (hydrogen pertixide and hypochiarous acid) and many five metabolic process, in which Rescrive oxygen species In living systems, oxidation is a misic part of the normal diabetes, inflammatory 45 I are involved to bothshe disease, asthma, development

> from food and readicital plants are the potential sources of body" Studies have shown that natural products derived physiological functions of living flora and hence they are believed to have better compatibility with the bursan antaoxidams<sup>10-78</sup>

> > enhancement and gain improvement of a microstrip patch

This paper presents a novel

approach for handwidth

patients of ferring from congestive heart failure (4.19) and colds. This plant is also used in low closes to treat abdeminal pain, Small pieces of stem are chewed to relieve bite, in treatment of muscles main, to treat excessive & of cartine plycoside responsible for the activity as arrow poison, but also act as cardiac stimulant 1.1. This plant has coothache. In intestimi worms treatment and also for aches irregular menstruation, leaf infusion used intreatment of been used for treatment of headache, snake bite & spider except for the pulp of the ripe fruit, contain large amounts Apocytaciae All parts of Arabanthera oppositiones, Arakanthorn is a genus of flowering plants in the family

scurf, termedy for diabetes. The reasted seeds help to used for treatment of intestinal worms, measles, to treat minuted throughout the tropics. L. lencocuphida is Muxico and northern Central America but is now small, first-growing mimosoid tree native to southern Leuwara teucocephala belong to family Fabaccaers a

B-13/2021 SRR Inspired Microstrip Patch Antenna Array

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By Chirag Arora, Shyam Sundar Pattnaik, and Rudra Narayan Baral

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2015-07-11

Апгау

Progress In Electronaignetics Research C, Vol. 58, 89-96, 2015

doi:10.2528/PIERC15052501

Abstract



enhancement of 3%. The electrical dimension of the patch is antenna array resonates at 5.8 GHz with gain of 4.3 dBi and increases to 610 MHz which corresponds to bandwidth resonator the gain approaches to 5.7 dBi and bandwidth bandwidth of 425 MHz, whereas when loaded with split ring applications. A split ring resonator (SRR) has been designed to antenna array for IEEE 802.16a 5.8 GHz WI-MAX load the microstrip patch antenna array. The unloaded

Citation

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doi:10.2528/PIERC15052501 Inspired Microstrip Patch Antenna Array," Progress In Electromagnetics Research C, Vol. 58, 59-96, 2015. Chirag Arora, Shyam Sundat Pattriaik, and Rudra Naroyan Baral, ISRR

https://www.paer.org/PIERC/s-ar N-p7tmper=15052501



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<sup>\*</sup>Author for Correspondence

Woltage differencing transport

Voltage differencing transconductance amplifier based resistorless and electronically tunable wave active filter

Neeta Pandey 🤄 Praveen Kumar & Sajal K. Paul

Analog Integrated Circuits and Signal Processing 84, 107–117 (2015)

483 Accesses | 19 Citations | Metrics

### Abstract

This paper presents a systematic approach for the realization of resistorless wave active filter using voltage differencing transconductance amplifier. The proposed filter uses grounded capacitor and also possesses electronic tunability of cut-off frequency via hias current. The functionality of the proposed filter is verified for a 4th order low pass filter through PSPICE simulation using 0.18 µm TSMC CMOS technology parameter. Experimental results using commercially available IC LM13700/NS are also included which corroborate

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the theoretical and simulated results

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Microwave and Optical Technology Letters / Volume 57, Issue 8 / p. 1983-1986

Research Article Full Access

A novel ultrawideband toppled trapezium-shaped patch antenna with partial ground plane

Kumari Kamakan 🗷 J. A. Ansari, Ashish Singh, Mohammad Aneesh, Aravind K. Jaiswai

First published: 28 May 2015 https://doi.org/10.1002/mop.29231

## ABSTRACT

In this article, a new design of ultrawideband microstrip patch antenna is proposed and results are verified experimentally. The printed configuration consists of a toppled trapezium-shaped radiating patch with finite size ground plane is excited via edge feeding. The antenna offers 114.20% bandwidth when fabricated on a substrate of dielectric constant 3.38. Simulated and experimental reflection characteristics, gain and radiation pattern are presented and discussed. The effect of tilt angles on the antenna characteristics is also studied. The study shows that the proposed antenna is simple in design and easy in feeding to meet the demand of wireless communications. © 2015 Wiley Periodicals, Inc. Microwave Opt Technol Lett 57:1983–1986, 2015

# 1. INTRODUCTION

Antenna is a most essential part of the wireless communication. With the rapid development and advancement of wireless broadband communication technologies, light weight, low cost, and small size antennas are of great demand. In recent years, a lot of researches have been carried out to develop ultrawideband (UWB) microstrip patch antennas which fulfill the need of present wireless communication systems. Due to its several advantages, it has been widely used in medical, industrial, and academic applications. Hence, seeing the demand of the UWB antenna. Federal Communications Commission (FCC) prescribed the ultrawide frequency band in the range of 3.1–10.6GHz in 2002. They also introduced the definition of UWB in terms of bandwidth that any antenna having fractional bandwidth equal to greater than 20% or 2500 MHz also comes in the category of UWB 1. 2. The numbers of research

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Volume 11.6, 15 October 2015, Pages 138-148 Applied Energy

In-nozzle flow and spray characteristics for mineral diesel, Karanja, and Jatropha

Armash Kumar Agmusi "A. et. Silando Som ". Franchi Chimita Shulle", Pizzoh Grezi", Dengkis Sorigman

- Engine Research Laboratory, Department of Mechanical Engineering, Indian Institute of Federology Kampur, Kampur 208016, India
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Received 31 October 2014, Revised 11 June 2015, Aucepted 4 July 2015, Available annine 14 July 2015 Engine Research Laboratory, Department of Civil Engineering, Inclusionation of Technology Kanpur, Kanpur 200016, India



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- In-nozzie flow characterization for blodiese) sprays
- Comparison of experimental speay parameters and nozzle hole simulations.
- Effect of Naranja and Jatropha biodiesel on in-nozale cavitation
- Cavitation formation Investigation with diesel and biodiesels.
- Nazzle hole outlet firel relouity profile determination for test fuels

### Abstract

(Karanja-and Jaropha-based), and their blends with mineral diesel. The results show that mineral diese spray in a constant-volume spray chamber during an experiment. This study compares mineral diesal, bandansela Superior spins behavior of furtion internal combustion engines lead to improved combustion and emissions evolution of the in-mizzle ordise parameters of a numerical simulation and the evolution of spray parameters of find characteristics therefore it is non-every to investigate for spray behavior of new alternative facts. This study discusses the

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Novel wascular stationwild growth factor blocker improves cellular viability and reduces hypocesic hypoxia-induced vascular leakage

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Clinical and Experimental Pharmacology and Physiology / Volume 42, Issue 5 / p. 475-484

reduces hypobaric hypoxia-induced vascular leakage and oedema in rat brain Novel vascular endothelial growth factor blocker improves cellular viability and

Deepika Saraswat, Sarita Nehra, Kamal Chaudhary, Siva Pijasad CVS 🔀

https://doi.org/10.1111/1440-1681.12387 First published: 04 March 2015

induced vasogenic bedema by regulating VEGF levels blocker 1 may be a promising candidate molecule for ameliorating hypobaric hypoxia-VEGF levels, decreased cerebral oedema, and reduced vascular leakage under hypobaric oxygen) in N2a cells. Vascular endothelial growth factor-A blocker 1 effectively restored hypoxia when compared to sunitinib-treated rats. Vascular endothelial growth factor-A increasing cellular viability and maintaining normal VEGF levels under hypoxia (0.5% sunitinib. Vascular endothellal growth factor-A blocker 1 was found most effective in experimental results were compared with the commercially available VEGF blocker on cerebral oedema and vascular leakage under hypobaric hypoxia 7260 m. All of VEGF levels in N2a cells under hypoxia (0.5% O<sub>2</sub>). Additionally, the best candidate molecule's efficacy was assessed in male Sprague-Dawley rats for its ameliorative effect (VAB1, VAB2, and VAB3) were checked for improvement in cellular viability and regulation DogSiteScorer. Based on in silico data, three VEGF-A blocker (VAB) candidate molecules: plot. The active site residues of VEGFA were detected by Pocketfinder, CASTp, and molecules that block VEGF-A site were identified and validated with a Ramachandran ameliorate hypoxia-induced cerebral oedema. In silico identification of novel candidate permeability factor under hypoxia. There is a need to find effective molecules that may Vascular endothelial growth factor (VEGF) is an important cerebral angiogenic and

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# Information merUncertain Supply Chain Management

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ISSN 2291-6830 (Online) - ISSN 2291-6822 (Print) Quarterly Publication Volume 5 Issue 2 pp. 135-142, 2017

Pages 135-142 Download PDP An EOQ model with quantity incentive strategy for deteriorating items and partial backlogging

Journals

Authors: Rahul Kumar Pandey, S.R. Singh, Bindu Vaish, Shilpy Tayal

DOI: 10.5267J.uscm.2016.10.002

DSL (371) MSL (2531) 1JtEC (505)

Keywerds. Quantity discount, Price dependent demand, Deterioration. Partial backlogging

AG (455)

ESM (257) USCM (394) CCL (238)

IJDS (133) JPM (102)

illustrate the model and its significant features. associated model. A minierical example is also given to for the retailer optimizing the total cost or profit of the partial backlogging to determine the optimal ordering quantity model for deteriorating products with quantity discount and product. The objective of this paper is to develop an inventory their customers to increase the existing size of order, which his ber selling price, which influences the demand for the purchasing price for the retailer. Therefore, the buyer adjusts results in higher annual sale for the vendor and a lower very little attention. Many vendors offer different schemes to Abstract: Quantity discount is a usual term in business and has been a topic of interest for a long time, but have received

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Visume 5 (28) Volume 4 (31) Pandon, R., Singh, S., Valsk, & Tayal, & (2017). As FCG mount with quantity (Honorston arrang) for deficient partial backlogging by factors. Supply than Management, 1(2), 13-14.

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Analog switching in the numberal auts of fembel ectal; liquid crystals, Applied Physics Letters Vol 108, No 26

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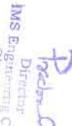
Appl. Phys. Lett. 108, 262903 (2016); https://doi.org/10.1063/1.4955023

Pradeep Kumar, Avinash Kıshore, and Aloka Sinha<sup>a</sup>

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### **ABSTRACT**

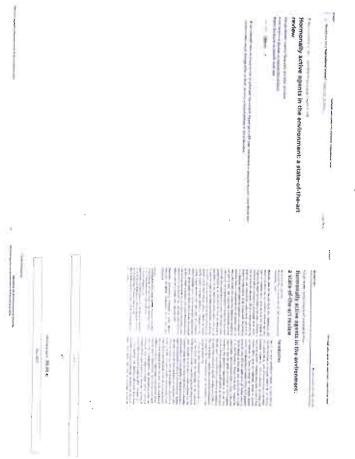
nanocolloids, which was initially absent in their parental FLCs. considered the main reason for the V-shaped switching in the FLC is higher than the conductivity of their parental FLCs and can be conductivity measurements show that the conductivity of doped samples  $6F_6T+0.5$  wt. %  $BaTiO_3$  (particle size 5–10 nm) doped sample. The  $5F_6T+1.0~{
m wt.}~\%~TiO_2$  doped sample is  $30~{
m Hz}$  while it is  $24~{
m Hz}$  for the the case of nano-doped FLCs. The value of inversion frequency for the nanocolloids has been studied. The V-shaped switching was observed in frequency and temperature dependence of the coercive voltage of FLC NPs of two different average particle sizes at the same concentration. The another FLC  $6F_6T$  is systematically doped with barium titanate ( $BaTiO_3$ ) NPs of two different concentrations of the same average particle size and analog switching. The  $5F_6T$  sample is doped with titanium dioxide  $(T_iO_2)$ changes in the physical properties of the existing LC mixtures. Two ferroelectric liquid crystals (FLCs),  $5F_6T$  and  $6F_6T$  , have been studied for Nanoparticle (NP) dispersion in liquid crystals (LCs) results in significant

The authors sincerely thank Professor R. Dabrowski, MUT, Warsaw, Poland, for providing FLCs, Professor A. K. Ganguli, Department of Chemistry, NRF, IIT Delhi, for providing NPs and Ms. Swarnalatha Veerla, IIT, Hyderabad, for help during some experiments. The DST (*SRJS2/CMP*-007/2010), Government of India, is also gratefully acknowledged.



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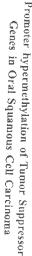


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Shantanu and Sandesh et al. / Journal of Pharmacy Reseurch 2016,10(6),126-430

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Shantanu Guptai<sup>s,</sup> Sandesh Kurnar Pateti<sup>s,</sup> Meenakshi Jha', Anju Shrivastava', Abhimanyu Kurnar Jhai<sup>s,</sup>

"Department of Biotechnology, IMS Engineering College, Charlabad (U.P.)-201009, India. Department of Zoology, Delhi University, Delhi-110021, India " Both authors contributed equally

Received on:22-04-2016; Revised on: 19-05-2016; Accepted on: 16-06-2016

the diagnosis of cancer and provide better alternative as a diagnostic biomarker. changes leads to the down/regulation or silencing of the gene which leads to cancer. These tumor suppressor genes may play what this in and can be descreed through MS-PCR. Various rumor suppressor genes get hypermelly/ated cytosine and are in turn inactivated. These Epigemetic changes are one of those changes which occurs due to environment and dietary factors. These epigenetic changes are revursible the oral cancer were found to be smoking and tohacco chewing despite of the several other reasons which are responsible for cancer. analysis of these oral lestons are done through traditional biopsy detection method, which is painful and time taking. The major reason for The oral squamous cell carcinoma (OSCC) is the common cancer subtype in the world causing millions of deaths. The detection and

KEYWORDS: Oral Squamous Cell Caremona, Hypermethylation, Epigemetic changes, Diagnostic

and accounts for 90% of all oral cancers. in the mouth, commonly affects the longue and the floor of the mouth over. Squamous cell caretnems which may affect any anatomical site possible causes: cancer has become a war that needs to be fought 106 different types of cancer, with most cancers having multiple pharyngeal cancers nearly 40,000 cases are expected in 2006, occurring custors. Among new cases of oral, laryngest and collectively causing 11,000 deaths? The fact that there are more than squamous cell cartinoma (OSCC) is one of the most commonly Statistical studies have shown that among head and neck cancer or al worldwide, stating 8.2 million cancer related deaths to 2012 alone Approximately 14 million new case are artsing yearly among Cancer is a leading cause for morbidity and mortality worldwide. of the nasal, oral cavity, phoryex, and larymx? Acantal incident of task factors and an equal number of age and sex-matched controls to oral cancer (n=388), statistical parameters were studied including attributable to alcohol consumption and 10 to 15% cases are caused ranjor risk flicter in 1/4 of cases, between 7 to 19% of cases are alcohol consumption. Revised investigations by Pen, about 50,000 cases of head and neck cancer has been noticed. The main

head and neck which encompasses turnors unising from the epithelium most frequesit site of aral squamous cell carcinoma is the region of multigrameies is ranked sixt. most occumon cancer in the world. The Oral squamous cell carcinomin that accounts for 3-5% of all human

IMS Engineering College, Chaviabad (U.P.) -201009, India. Department of Biotechnology, Or Abhimanyu Kumar Jha \*Corresponding author.

disorders ranges approximately from 1 to 59%. The first step in the ratio - OR=11.34). The global prevalence of oral potentially malignant drinking emerged as significant risk factors for oral current (odds results showed that use of tobacco (chewing) alone and alcohol

alcohol drinking, diet and dental care) on the risk of oral cancer. The assess the effect of lifestyle factors (tobacco chewing smaking, Indian subcontinent. In one such study on patients diagnosed with been conducted in Indus to study the higher prevalence of OSCC in due to micronutrient detellency. Various case-control indices have prevalence and/or incidence of OSCC concludes that ampking is a

risk factors involved as consulve agent in OSCC are smoking and

general public and policy makers to emphasize that these risk factors prevention and control of OSCC is to increase awareness among the

Journal of Pharmacy Research Vol. 10 Issue 6 June 2016 cancer muligatorities. The factors that increase the risk of developing Oral Squampus Cell Carcinama (OSCC) consists of one third of total 426-430



ISSN: 0975-8585

# Research Journal of Pharmaceutical, Biological and Chemical Sciences

Promoter Hypermethylation of Tumor Suppressor Genes in Lung Cancer.

Meenakshi Jha<sup>1#</sup>, Sandesh Kumar Patel<sup>2#</sup>, Shantanu Gupta<sup>2</sup>, Abhimanyu Kumar Jha<sup>2</sup>, and Anju Shrivastava1\*

\*Oepartment of Zoology, Delhi University, Delhi-110021

<sup>2</sup>Department of Biotechnology, Into Engineering College, Ghaziabad (U.P.) India-201009

This review encompasses the promoter hypermethylation of tumor suppressor genes in lung cancer and its role in the generation of the lung cancer. Hypermethylation of CpG islands of promoter region in tumor factors. In approximately 50% of the cases the patient is non-smoker. Because of this it is indicated that tobacco possible reversal using demethylating agents. sunpressor gene results in their inactivation that ends up in numerous kinds of cancer, as well as lung cancer and smoking do not seem to be the sole cause for cancer. Epigenetic changes conjointly play a very important Lung cancer is commonest and deadly disease. Tobacco smoking remains its most significant etiologic

Keywords: Lung Cancer, Epigenetic changes, Promoter hypermethylation, Reversal of the Tumor Suppressor





"Corresponding author

July ~ August 2016 RJPBCS 7(4)

Page No. 3166



ISSN: 0975-8585

# Research Journal of Pharmaceutical, Biological and Chemical Sciences

# Statistical Studies of Different Cancer Causing Protein Sequences.

Smruti Mayipanda, Divya Srivastava, Santosh Kumar Mishra\*, and Priya Ranjan Kumar.

Department of Biotechnology, IMS Engineering College, Ghaziabad, Uttar Pradesh, India

### ABSTRACT

Cancer is both a disease and disorder which is caused by genetic and non-genetic mechanisms that affect the biological and chemical function or expression of normal genes. The effect of physical parameters on carcinogenicity of proteins were calculated and observed and analyzed. After analyzing these data this have considered and effect of these physical factors were observed on for carcinogenicity of the proteins. The objective of this study was to find out the effects of various physical parameters of cancer causing proteins and its effect on the carcinogenicity using statistical study of these proteins sequences. The result of study reveals that carcinogenicity not general with decrease in net surface charge and meen plivalue and increase in energy impact or plays no significant role in causing cancer.

Keywords: Carcinogenicity, Homology, Statistical tests, iso-electric point.

Corresponding author

September - October

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7(5)

Page No. 533

#2021 A comparative analysis of methylation status of arms, suppressor germs in paired bloosy and source amplication carvical cancer p ...

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Human Genetics | Published 31 March 2016

A comparative analysis of methylation status of tumor suppressor genes in paired biopsy and serum samples from cervical cancer patients among north indian population

A. K. Jha 🖾 V. Sharma, M. Nikbakht, V. Jam, A. Sehgal, N. Capalash & J. Kaur

Russian Journal of Genetics 52, 226–230 (2016)

71 Accesses | 6 Citations | Metrics



An <u>Erratum</u> to this article was published on 01 August 2016

### Abstract

Tumor-specific genetic or epigenetic alterations have been detected in serum DNA in case of various types of cancers. In breast cancer, the detection of tumor suppressor gene hypermethylation has been reported in several body fluids. Promoter hypermethylation of some genes like MYOD1, CALCA, hTERT, etc. has also been detected in serum samples from cervical cancer. The present study is the first report on the comparison of promoter hypermethylation of tumor suppressor genes like p14, p15, p16, p21, p27, p57, p53, p73, RARβ2, FHIT, DAPK, STAT1, and RB1 genes in paired biopsy and serum samples from cervical





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# friction stir processing: Suitable strategy in surface composite fabrication via Distribution of reinforcement particles

Sandeep Rathee 🗷, Sachin Maheshwari, Arshad Noor Siddiquee & Manu Srivastava Pages 262-289 | Received 20 Sep 2016, Accepted 08 Feb 2017, Accepted author version posted online. 10 Mar 2017 Published online 05 Apr 2017





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### POF

## ABSTRACT

metal at constant process parameters of 1120 rpm rotational speed, 40 mm/min investigated. The experiments were performed in two phases using AA6063 as base positions on dispersion of reinforcement particles in the base matrix are parameters, tool geometry, tool dimensions and reinforcement strategies. In this stir processing applications. Key factors affecting the properties of SCs are process research, effects of different reinforcement strategies and varying tool offset Fabrication of metal matrix surface composites (SCs) is an emerging trend of friction

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2.5° respectively. Macro and the microstructural study were performed using stered award and gratical respectively. Rerults reflected that lower plunge depth levels lead to insufficient heat generation and cavity formation experimentation are speed of rotation, travel speed and tool hit angle which were taken as 1400 rpm, 40 mm/min, and free surface composites partures and even sticking of material to tool shoulder. Thus, an optimal plunge depth is needed in developing defect towards the stir zine centre. On the other hand, higher levels of plunge depth result in ejection of temforcement diameter and tool tilt angle to observe the exclusive effect of plunge variation. Process parameters chosen for the dispersion in metal matter was investigated. Six varying tool plumpe depths were chosen at constant derest of shoulder AAGGI/SIC surface composites were fabricated and the effect of tool plunge depth on pattern of reinforcement particles Friction stir processing (ESP) is a promising novel solid state technique for surface composites (himcation. In this study Alu<u>umusen matris</u> surface composites are gaining alluring role especially in acrospace, defence, and marine industries.



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### Neywords

Metal matrix composites Friction stir processing. Tool plunge depth Microstructural characterization

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# Mathematical Modeling of Microbial Growth and Production Kinetics for á-Amylase Production Using Mustard Oil Cake as Solid Substrate

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Mathematical Modeling of Microbial Growth and Production Kinetics for á-Amylase Production Using Mustard Oil Cake as Solid Substrate

Santosh K. Mishra<sup>1</sup>. Shashi Kumar<sup>b</sup>, Ravi Kant Singh<sup>3</sup>\* and Surendra Kumar<sup>2</sup>

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### ABSTRACT

Different phases of the *Gliomastix indicus* growth curve and the production of a-amylase using solid-state fermentation process based on variation in dry weight was mathematically modeled. The result of the study reveals that the growth of the fungal cells and the production of a-amylase on a mustard oil cake as solid substrate could be expressed by simple models incorporating the mathematical definition of each phase and the variation in dry substrate weight over the incubation time. The growth kinetics of *G.indicus* could be described by the mathematical modeling parameters regarding maximum specific growth rate and maximum biomass concentration obtained by fitting the experimental data to the logistic model Experimental data collected from a series of batch feather trations process were collected for 10 days (240 hrs.) and used to propose the mathematical models. Experimental observations, and predicted models made it possible to conclude that these models can be successfully employed to represent the biomass growth and a-amylase production in solid-state ferimentation processes.

### KEYWORDS:

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### ABSTRACT

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Authore: Mohir Rastogi, S.R. Singh, Prashant Kushwah, Shilpy Tayal

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Keywords, Inventory, Deserioration, Warehouse, Shortages, Partial

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System parameters is also presented to demonstrate the model proposed study. Sensitivity analysis concerning with distinct example are presented to illustrate the implementation of the cost of the system. A solution procedure and numerical amount and time of order which can optimize the total average purpose of the development of this model is to compute the partially backlogged and cycle time is also variable. The steveloped. The occurring shortages are assumed to be deteriorating products with selling price dependent rate is stock the extra quantity. In this paper an inventory model for the storage capacity. So in this situation the retailer has to furchase an extra warehouse named as rented warehouse to a retailer to purchase more quantities than needed or exceed purchasing, seasonality, higher ordering cost, etc., which force there are many conditions such as offered concession in bulk Abstract: In today's era of higher competition in the business,

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Cash discount Pages 27-47 = Download PDF partial backlogging under credit limit policy and An EOQ model with variable holding cost and

DOI: 10.5267G.uscm.2016.8,002 Authors: Mohit Rastogi, S.R. Singh, Prashant Kushwah, Shilpy Tayal

Kerwords: Price sensitive demand, Variable holding cast, Permissible

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parameters is shown to make sure the constancy of the model. different cases are also presented to illustrate the study. A sensitivity analysis with regard to distinct associated this study is to optimize the overall cost of the system and to compute optimal ordering quantity. Numerical examples for time, which reflects a more realistic concept. The purpose of backlogged. Holding cost is considered us varying function of shortages are allowed in this model and are partially retailer chooses his/her option. In this paper we discuss the possible cases of permissible delay and dish discount. The to pay all the dues. According to the availability of money the vendor offers a cash discount or fix time period to the retailer deteriorating items with price sensitive demand. Generally the Abstract: In this paper we develop us inventory model for

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# energy: a review Title: Microbial fuel cell - a source of renewable

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# Research Journal of Pharmaceutical, Biological and Chemical Sciences

# Formulation and Evaluation of Poly Herbal Antioxidant Cream: With Special Emphasis on Prevention of Premature Aging of Skin.

Anviksha Tiwari, Aishwarya Tyagi, and Savita Chaurasia\*.

IMS Engineering College, Adhyatmik Nagar, Ghaziabad APJ Abdul Kalarii Trithnical University, India

### ABSTRACT

communison to individual extracts. This effect may be due to synery succeffect. Formulated commit was also tested for its stability and other physical properties. The cream showed good stability at room temperature with it pet that is suitable for this skin & showed no limitancy. Plant extracts used in cream also possess inclibacterial activity, hence it for total phenol and flavonoid content which is responsible for antioxidant activity. Antibactarial activity of these extracts can be beneficial for arevention of skin infaction also. Formulated cream was tested for antioxidant activity, and it was found that cream showed better antioxidant potential in was also studied using this diffusion method. O/W emilision based cream was formulated using all the three plant extracts jotomons). Antioxidant activity of plant extracts was assessed by FRAP assay & TAC assay Plant extracts were avaluated Antioxidants are well known to slow the process of aging. Also it plays a significant role in slowing down skin related problems like whickles and pigmentation. In present study a polyherbal antioxidant cream is formulated using ethanolic extracts of Amia. (Phyllonthus emblica), Cinnamon (Cinnamonum verum), and Jatamansi (Nordostachys

Keywords: Poly Hertal crasm, Hertal Extracts, Anti-ageing, Anti-microbial, Anti-oxidants





\*Corresponding author

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ISSN: 0974-6943 Review Article

Anchal Verma et al / Journal of Pharmacy Research 2017,11(4),267-271

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Optimization of physiochemical parameters for the production of withaferin A employing cell suspension culture of Withania somnifera: A review

' Department of Biotechnolog, Jomio Hamdard Deemed University , Hamdard Nagar,Dellu 110062 India Department of Biotechnology: IMS Engineering College. Ghartabad, Uttat Pradesh 201909 India Anchal Verma 12, Seema Ahlawatt, Abhimanyu Kumar Jha7, M.Z. Abdin 1

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Original contribution

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### ABSTRACT

article will encompass the parameters which are responsible for optimum production of withaferin A employing cell suspension is focusing on the methodology to achieve the maximum production of withafarin A employing cell suspension culture of Withania culture of Withania somnifern. nominifiera. As withaferin A low concentration was found to be a limiting factor in previous reports on Withania simulfera. This inflammatory agent, an immuno modulatory, an anti-angiogenesis, anti-metastasis and anti-carcinogenic property. This review article It is used in ayurvedic medicine. It has a wide range of activities which comes under pharmacy cardio protection, the antias withanolides which are present in roots and leaves. Withaferin A is a steroidal lactone being derived from Withania sommifere. sexual disorders. Medicinal properties of plant have been attributed to the presence of a group of steroidal factories which are known medicine and in plant biotechnology. The dried roots and leaves of the plant are used in the treatment of various nervous and Withanta somnifera (Ashwagandha) is a plant used in medicine from the time of presence by ayurveda, the ancient system of Indian

KEY WORDS: Withaferin A anti-inflammatory, with anolides, cardioprotective

### I. INTRODUCTION:

individual to resist adverse environmental factors and by creating athernatives to production of desirable modelital compounds conditions and also it involves increment in the capability of the appendiculty in plant tissue culture, plays a vital role in search for ageing process as well as revutilising the body in debilitated longevity by augmenting defence against disease, acresting the is known as manyanas, which are reputed to promote health and The roots of the plant are categorised in special category which Genus: Withonia Ayurvedic and indigenous medical systems for over 3000 years. Family: Solunaceae gattsett; and winter cherry it has been an important herb in the Order: Tubillorae Withamia somnifera (WS) also known as Ashwapandha Indian Class: Dicoyledoni in present era of technology, Biotechnological approaches, Species: sommifera from plants<sup>(1)</sup> Plant secondary products have been historically

Sub kingdom: Trachcobionta, Vascular plants Kingdom: Plantac, Plants, Division: Angiosperma Super division: Spermatophym, Seeds plants, Taxonomical classification:

> biochemical role in the process of building and maintaining plant defined as chemicals that do not appear to have a vital

Centre for Transgenic Plant Development, Head and Professor of Biorechnology, Jania Kamdard Deemed University New Delhi Dr. M.Z. Abdin \*Corresponding author.

Production is reliable, predictable and independent of ambient continues year round basis, without my seasonal constraints Secondary products in plant cell culture can be generated on a and an alternative role towards beneficial organisms such against herbivory, pathogen attack and inter-plant competition Accordingly, secondary products have both a defensive role chemicals in the ecophysiology of plants and their sustainability cells, but the recent researches has shown a pivotal role of these pollinators or symbionts and others

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ISSN: 0975-8585

# Research Journal of Pharmaceutical, Biological and Chemical Sciences

Promoter Methylation Status Of P16 Gene In Biopsy Samples Of OSCC Patients Among North Indian Population

Sandesh Kumar Patel<sup>1,4</sup>, Shantanu Gupta<sup>1,4</sup>, Meenakshi Jha<sup>2</sup>, Anju Shrivastava<sup>2</sup>, and Abhimanyu Kumar Jha<sup>17</sup>

Department of Applicate, Indiany, IMS Engineering College, Ghaziabad, Uttar Pradesh- 201009, Department of Applicate, Definitioniersity, Delhi-110021.

### ABSTRACT

Keywords: Oral Cancer, Epigenetic changes, p16 gene, Hypermethylation, Indian population (p-values 0.0013). p16 hypermethylation was observed in 48% (24 out of 50) of the samples due to environmental and dietary factors, p16 is a tumor suppressor gene which gets hypermethylated due to several riskfactors. It was observed that the p16 hypermethylation was found to be significant in the north genetic alteration of the gene in which mutation and epigenetic changes are responsible. These are caused high mortality across the world. Smoking and chewing tobacco are the major causes of oral cancer. Cancer is worldwide causing millions of death. Oral cancer is the 6<sup>th</sup> most commonly occurring malignancy leading to Worldwide, large number of deaths are associated with cancer. Cancer is the leading cause of death



8(2) Page No. 980

> International Journal of Applied Engineering Research ISSN 0973-4562 Volume 12, Number 22 (2017) pp. 11796-11802 E Research India Publications. http://www.ripublication.com

# Subnet Based Ad Hoc Network Algorithm Reducing Energy Consumption in MANET

Kaushal Kishor<sup>1</sup>, Parma Nand <sup>2</sup> and Pankaj Agarwal<sup>3</sup>

<sup>1</sup>Professor and Head of Computer Science and Engineering, IMS Engineering College (IMSEC) Ghaziahod, Uttar Pradesh, India. Orcid. 0000-0002-7131-1389 <sup>2</sup>Head of Computer Science and Engineering, Sharda University, Gantain Buddha Nagar. Uttar Pradesh, India. <sup>1</sup>Research Scholar Dr. A.P.J Abdul Kalam Technical University, Lucknow, Uttar Pradesh, India

the optimal subnet size and the optimal assignment of nodes to subject-hearts/ [6] approach to maximize the network life-time by determining significant sub-set of ad too factworks. We propose an original time in the case of Subnet based systems, which represent a protocol is to devise techniques to maximize the network lifenetwork and Our objective of this paper modify existing between source node to destination in the mobile ad loc paper is concern to devlope and evaluate route discovery time, strictly depends on the system energy efficiency. In This networknode runs out of energy, the so-called network lifenetwork starts functioning to the instant when the first network nodes. The time period from the instant when the represented by the limited availability of energy with in One of the most critical issues in wireless ad hoc networks is

RREQ, Energy consumption Keywords: AODV, ANDA, ACE, MANET, Path selection,

### INTRODUCTION

Prouctive (Table Driven) Reactive (On Demand driven) and bybrid in proactive mairing protocol each nodes maintain the information about the other node in the form of table the various trutting protocol like that DSDV, WRP, OLSR, FSR, efficient algorithm for ait has network the mobile ad hos networks and hence the study and implimentation of energy of protocol for the application for the application in such so battery life time is a hindrance to network performance in a wireless ad hoc network are powered by energy limited rethwork. Each of these mobile notics is operated by limited significantly limited in wireless networks than in wired decentralized manner. Therefor greatest challenge manifesting in the design of wireless ad hoc networks is the limited routing protocol can be classified into main three categories There for energy efficiency is of vital importance in the desgin replace the batteries during a mission, [13] Most mobile nodes energy hattery and usually it is impossible to recharge or A mobile ad loc network is the collection of autonomous public nodes and tenninal that communicate such other in

> In Reactive routing protocol establish routs only they are needed. When source node requiers a route to destination it route lass been established by recieving a route reply flooding route request packet (RREQ) in entire network once

best feature proactive and reactive algorithm while our proposed algorithm used in mobile ad hoc network then (RREP) In hybrid routing protocols attempts to combine the reduce the energy cossumption [6]

simple node. The submet size is controlled by varying the submet -head's transmission power. The submet-head coordinates transmissions within the submet and handles interauthor traffic and delivers all packets to the subnet. In subnet based network, mobile nodes are devided into several groups. In each group, one mids is elected to be the subnet-bead, and act as Regional admin and other nodes act as

the whole network. Energy is evenly drained from the subset heads by optimally balancing the subset traffic loads and power consumption due to both the transmission and receiving dynamically adjust the size of the subnet through power control, and, hence, the number of controlled nodes per the subnet-heads and the network topiclogy is like sensor network, either static or slowly changing. We propose a Algorithm. Adhor. Network. Design: Algorithm, which regulating the subnet heads transmission ranges. of data packets, and it maintains the energy consumption over subnet. Ad hor Network Design Algorithm takes into account coverage of the nodes in the network. Ad hie Network Dayign Algorithm is tusted on the concept that subset-heads can maximizes the network life-time while providing the total In this paper, we consider a perwork and first of we choose

# THE NETWORK LIFE-TIME

either static, like in sensor networks, or slowly changing. Let  $S_{s} = \{1,...,N\}$  be the set of subret-letads and  $S_{st} = \{1,...,N\}$  be heads are chosen a priori and are fixed throughout the network the set of ordinary nodes to be assigned in the subnet. Subnetsubnetting approach. The network topology is assumed to be Three are the major contributions to power consumption by the level of transcrission power used by the Subnet-heads life-time, while the coverage area of the Subnets is determined We consider a generic ad hoc network architecture based on a

<sup>&</sup>quot;Corresponding outhor

<sup>#</sup> Both authors contributed equally

6/13/2021

Performance entrancement of patch antenna array for 5.8 GHz WHAAX applications using meternaterial inspired technique - Science



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done for comparing simulated and measured results. Equivalent circuit of this newly devised array has been designed proposed superstrate, gain and bandwidth of 12.1 dBi and 780 MHz, respectively, is obtained, thus providing the gain sethièved by an unloaded array at IEEE 802.16a 5.8 GHz Wi-MAX band, However, by covering this array with the comprising of Split Ring Resonators (SRR) and white strips. Gain and handwidth of 4.3 dBs and 425 MHz, respectively, is challenge. To meet these challenges, this article proposes a nucrostrip patch interna array, tuspined with a superstrateand discussed Moreover, the simultaneous improvement of gain and bandwidth, which are two conflicting juraments, is mother antenna has limitation of low gain and narrow bandwidth. To overcome these problems, <u>multi-layer structures</u> are seed improvement of 7.8 dBs and handwidth enhancement of 355 MHz. Fabrication and testing of the proposed antenna is The <u>internal performance</u> can faither be enhanced, if maint-layer structures are designed for array of patch unternas. Though a microstrip patch antenng has advantages of lew profile and structural planarity, but a single microstrip patch



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### Keywords

Antenna zeny. Metamaterial, Permeability, Wi-MAX

### 1. Introduction

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# of DSTATCOM Implemented on Distribution Systems A Review of Various Topologies and Control Schemes

### Pankaj Negi

### Yash Pal

Department of Electrical Engineering, XII Kurukshera Haryana, India

Department of Electrical Engineering, Madawtachiui Invernational University Fandabari, India

### Abstract

Distributions talk Compensator (DSTATCOM). This paper covers the differentiopologies of quality can be improved in distributedsystem by using shunt compensation device known as issuethat is becoming increasingly important to electricity consumers atail levels of usage. Power deregulation of the electric power energy market; the awareness concerning the quality of power to disturbances compare to the previous generation equipment and information systems. With the has been increasing day by dayamong different categories of customers. Power quality is an but also quality power. The usage of automated equipmentare increasing and far more susceptible receiving the high qualityelectrical energy is being increasing as consumer wants not onlyreliable various control methodologies, and its selection for specific applications. Nowadays the demand for paper covers the different topologies of Distribution Static Compensators (DSTATCOMs) and the using shunt compensation device known as Distribution Static Compensator (DSTATCOM). This electricity consumers at all levels of usage. Power quality can be improved in distributed system by categories of customers. Power quality is an issue that is becoming increasingly important to the awareness concerning the quality of power has been increasing day by day among different equipment and information systems. With the deregulation of the electric power energy market increasing and far more susceptible to disturbances compare to the previous generation consumer wants not only reliable but also quality power. The usage of automated equipment are Nowadays the demand for receiving the high quality electrical energy is being increasing as

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## State Fabrication of Composites and A Review of Recent Progress in Solid Functionally Graded Systems Via Friction Stir Processing

Sandeep Rathee 🗷, Sachin Maheshwari, Arshad Noor Siddiquee & Manu Srivastava Pages 334-366 | Published online: 15 Sep 2017



### ABSTRACT

However, recently, it has gained an alluring role in fabrication of composites of development of metal matrix composites of light metal alloys like aluminum. state. During initial years of FSP inception, it was primarily employed in successful adaptation of surface properties through plastic deformations in solid composite fabrication. It involves surface modification which in turn enables Friction stir processing (FSP) is a rapidly emerging newer solid-state technique for



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and ferrous metal alloys as well as of polymers. In addition to

https://www.tandforNine.com/do/full/10.1080/10408435.2617.1356146 n. FSP has evolved as a revolutionary technique in developing

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Friction Stir Processing Surface Composites Produced by Mechanical Properties of AA6063/SiC Dimensions on Microstructure and Investigating Effects of Groove

<u>Siddiquee</u> & <u>Manu Srivastava</u> Sandeep\_Rathee 🖙, Sachin Maheshwaru Arshad Noor

<u>Transactions of the Indian Institute of Metals</u> 70, 809–816

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### Abstract

percentage of 40% of SiC reinforced surface tound optimum for developing high volume surface composites and a ratio of w/d of 0.5 was that groove width have strong impact on the area of width on area of developed SCs. Results reflected observe the exclusive effect of variation of groove levels of tool dimensions and process parameters to varying groove widths were chosen at constant mechanical properties were investigated. Five dispersion of reinforcement particles and ratio of groove width (w) to tool pin diameter (d) on surface composites were fabricated and effect of in solid state. In the current research, AA6063/SiC fabrication where their labrication is accomplished promising technology for surface composite Friction stir processing forms an innovative and

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Deteriorating Products having Price Sensitive Demand and Partial Backlogging of Occurring Shortages An Inventory Model for Non-Instantaneous



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the developed model. Finally, a numerical example with sensitivity analysis is given to demonstrate unit time profit by finding optimal selling price and optimal time interval assumed to be time dependent. This paper aids the retailer in maximizing the demand with partially backlogged shortages. The backlogging rate is model for non-instantaneous deteriorating items having price-sensitive are received in stock is not true in general. This paper presents an EOQ such products, so the assumption that products begin to deteriorate as they quality for a certain period of time and after that deterioration occurs in In today's competitive market, there are some products which maintain their

Model, Shortages, Partial Backlogging Keywords: Non-Instantaneous Deterioration, Price Sensitive Demand, EOQ



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rate and shortages under inflationary environment products with selling price dependent consumption Title: A production inventory model for deteriorating

Authors Mohit Hartings S.R. Singh

Department of Mathematics, CCS, University, Meeting, India Addresses Central for Market Total Survey, Sanachal Uswersky, Sanathas India

Executy correlated to the return of the investment. The distinuous will not be advantageous, it the return site of executions to be seen than the exhausts care, in amount developed models, is a Abstract to today's highly competitive making every business sweets a bign error inner) wouth call related to the model differ. This research article presures a production memory model to using it is not true. At the time increasing, inflation opcomes a considerative function and the isses the optimal value of production period and shortage period. A solution procedure and real example are presented to floating the limple ages throng stock out securmed to be partially backlogged. The lotermon of this study is to ed that distinct costs related with indepartment and bugger upon surgered bugger analysis with respect to distinct system parameters of who presented to check the considered here is a function of accurring demand. The entory systems will be constant all the time but in and and shortages under inflationary

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Section G: Thin Films

# crystal nanotubes doped ferroelectric liquid Electro-optical properties of carbon

Pradeep Kumar & Aloka Sinha 🗷

Pages 71-76 | Received 07 Nov 2016, Accepted 22 Apr 2017, Pulsished online: 04 Jan 2018

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decrements can be attributed to the trapping of mobile ions by doparit CNTs in decreased with increasing doping concentration of CNTs in W206E. These compared to the pure FLC. The dielectric permittivity and conductivity are topological defects. The spontaneous polarization of doped systems decreases as (FLC), W206E. The optical micrographs of nanocomposite systems reveal some optical properties of carbon nanotubes (CNTs) doped ferroelectric liquid crystal The present study is focused on the investigations of possible effects on electro-**Опасыва** 

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# performance of bent core nematic system Nanodoping: a route for enhancing electro-optic

"Tadkep Kizhaz 1", Soznen Debiatti, Nardingiji V Silan Asska Sinha

PMID: 29336349 DOF 10 1052/11/61 646X/ma8601

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then throughts performances and will lead to the development of faster electro-optic devices rombucking of pure 80%. Hence nanodoping in a 80% is an effective method for the enhancement of between INPs and 804 molecules improves the F  $_{
m o}$  dielectric behaviour, viscosity and reduces that effects caused by free lock in liquid crystal based povices. This study demonstrates that the interaction found to decrease as compared to the pure BCN. This reduction helps in the numinization of negative of cybotacts clusters. These dusters are also responsible for the observed polar switching in pure as SNPs in BCN. Dielectric study shows a lower frequency mode, which can be ascribed to the formulan and the value of appotaneous polarization (P ). Increases with increase in doping concentration of nematic phase in pure and doped states. Polar switching has been observed in the bern core system Will report the effect of dispersion of ballium trainate (BaTiO-) nanoparticles (BIPE) in a four ingibers notation of molecules about their long molecular airs. The conductivity of doped samples is also we us, in super BCNs, Another higher frequency incide, observed anky in pure BCNs indicates the care rematic (BCIN) Iquid crystal. Polarising optical microscopy revents the presence of a single

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# Discussion on Rayleigh equation obtained for a High Struster plasma with cust | SpringerLaw

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thruster plasma with dust Discussion on Rayleigh equation obtained for a Hall

Jasendra Tvaşi Çimsele Sharina & Hilandra K. Mula 🖾

and 12 Theoretica and Across 200 s 12. 233 (2018) 1008 ALIMON MEDIS

### Abstract

in the threster only for the oscillations baving frequencies within this band bund of oscillation frequency, revesiting that the Rayleigh instability shall occur modified equation taxes the form of the Rayleigh equation for a particular form of the well-known Rayleigh equation of fluid dynamics is realized. The of the walls. In the presence of negatively charged dust particles, a modified channel due to the finite divergence of the accelerated loss and the spottering Hall thruster plasma thirting dust contamination, produced near the exit of the tumperature and ion density, has been traced out. millimeters, viz. dust density. Hast charge number, dast mass, electron For better understanding, the variation of impaency hand with various The present shidy focuses on the Rackingh equation derived in the case of a

### Introduction

efficiency and lifetime of the Hall thrusters [5, 6]. Further, the major flaw of which back to the actificat of dust to the chamber that it likes to affect the Boundairedment of the electrons and the ions exides the works of the character abs resigned is field and hieroe to the magniture from of the thruster \$2.3.4). to the electron-cloud due to which thrust is generated, which is trunderted to and a personal of the shringer in a store can be shown the can include the produced between the channel (positive) and the ring of electrons (negative) propellant atoms, creating ions, Ions so produced experience the electric field the Hall current. Trapped electrons in the channel undergo callisions with the spiral motion along the axis of the three-ter in the  $\mathbb{E} \times \mathbb{B}$  direction, constituting which demands their probling and traps them, hence, the electrons trace sait Electrons to bug to reach the anode experience a transverse magnetic field. gas is fed through the base into the channel and dispersed eventually radial magnetic field. Cathode is located externally around the channel, and grindreal chamber ealled organical, in which benigation and acceleration of the region (anode), eathode and magnetic field. The insulated discharge region is space mussions [1]. In general, these consist of three parts, manely discharge Hall thrusters are coasial plantin accelerators regarded at one of the most propullant are performed in the provence of crossed as all electric field and stratilined and coathains electric propuls in desicas having numerous spacecraft applications is telecommunications satellités and other connocressi





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