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## . Table of Contents

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ARTICLES

A No Access , March 2016

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SHOW ABSTRACT

1

No Access . March 2016

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Anmol Gulati, Ashutosh Gupta, Shruti Murgai and Lala Bhaskar

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SHOW ABSTRACT

1

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A No Access - March 2016

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AIP Conference Proceedings 1715, 010002 (2016); https://doi.org/10.1063/1.4942679

No Access . March 2016

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SHOW ABSTRACT

No Access . March 2016

High pressure effect on optical gain in type-II InGaAs/GaAsSb

Nisha Yadav, H. K. Nirmal, Rashmi Yadav, Pyare Lal and P. A. Alvi

AIP Conference Proceedings 1715, 020004 (2016); https://doi.org/10.1063/1.4942686

SHOW ABSTRACT

A No Access - March 2016

Real-time stereo generation for surgical vision during minimal invasive robotic surgery

Amit Laddi, Vijay Bhardwaj, Prasant Mahapatra, Dinesh Pankaj and Amod Kumar

AIP Conference Proceedings 1715, 020005 (2016); https://doi.org/10.1063/1.4942687

SHOW ABSTRACT

1

No Access . March 2016

Multi-board kernel communication using socket programming for embedded applications

Achieh Miches Maha Ciedhar and Milita Krichnia

AIP Conference Proceedings 1715, 020006 (2016), https://dai.org/10.1065/1.4942668	_	SHOW ABSTRACT	
SHOW ABSTRACT	1		
		No Access . March 2016	
A STANCE SECTION		Study of the oxidation effects on isothermal solidification	
No Access March 2016		based high temperature stable Pt/In/Au and Pt/In/Ag thick	
A low cost implementation of multi-parameter patient		film Interconnections on LTCC substrate	
monitor using intersection kernel support vector machine		Duguta Suresh Kumar, Nikhil Suri, P. K. Khanna and R. P. Sharma	
classifier		AIP Conference Proceedings 1715, 020010 (2016); https://doi.org/10.1063/1.4942692	
Dhanya Mohan and C. Santhosh Kumar			
AIP Conference Proceedings 1715, 020007 (2016); https://doi.org/10.1063/1.4942689		SHOW ABSTRACT	
SHOW ABSTRACT	ı	SHOW ABSTRACT	
***************************************	WWW	No Access . March 2016	
Δ	and the	Design of an application for the solution of economic dispatch	ě
♠ No Access . March 2016 Challenges in probabilistic timing model generation in		problem of power system considering risk and using soft	
Integrated circuits		computing methods	
Naresh Kumar, Parag Bhatnagar, N. K. Agarwal and P. S. Bhatnagar		Ravindra Kumar Chahar and Alok Agarwal	
AIP Conference Proceedings 1715, 020008 (2016); https://doi.org/10.1063/1.4942690		AIP Conference Proceedings 1715, 020011 (2016); https://doi.org/10.1063/1.4942693	
		20.00 x 20.00	
SHOW ABSTRACT	•	SHOW ABSTRACT	
No Access . March 2016		No Access , March 2016	
Realization of 2:1 MUX using Mach Zhender Interferometer		Design & simulation of in-plane MEMS Lorentz force	
structure and its application in selection of output signal of		magnetometer	
MOEMS pressure and temperature sensor		Jyoti, Aditi, C. C. Tripathi and Ram Gopal	
Sumit Kumar Jindal and Sanjeev Kumar Raghuwanshi		AIP Conference Proceedings 1715, 020012 (2016), https://doi.org/10.1063/1.4942694	
BROWSE VOLUMES		BROWSE VOLUMES	
SHOW ABSTRACT	1		
		No Access . March 2016	
		Designing of smart home automation system based on	
No Access . March 2016		Raspberry Pi  Ravi Prakash Saini, Bhanu Pratap Singh, Mahesh Kumar Sharma, Nattapol Wattanawisuth	
Modelling and simulation of passive Lab-on-a-Chip (LoC)		and Nopbhorn Leeprechanon	11
based micromixer for clinical application		AIP Conference Proceedings 1715, 020016 (2016); https://doi.org/10.1063/1.4942698	
Chakraborty Saikat, M. Sharath, M. Srujana, K. Narayan and Prasant Kumar Pattnaik			
AIP Conference Proceedings 1715, 020013 (2016); https://doi.org/10.1063/1.4942695		SHOW ABSTRACT	:
SHOW ABSTRACT		AND THE RESIDENCE OF THE PROPERTY OF THE PROPE	
SHOW ABSTRACT		Ro Access , March 2016	-
	The state of the s	Concurrent multi-mode timing model generation for	
No Access , March 2016		hierarchical timing analysis	
Modeling and analysis of surface potential of single gate ful	ly	Naresh Kumar, Parag Bhatnagar, N. K. Agarwal and P. S. Bhatnagar	
depleted SOI MOSFET using 2D-Poisson's equation		AIP Conference Proceedings 1715, 020017 (2016); https://doi.org/10.1063/1.4942699	
Prashant Mani, Chandra Shekhar Tyegi and Nishant Srivastav			
AIP Conference Proceedings 1715, 020014 (2016); https://doi.org/10.1063/).4942696		SHOW ABSTRACT	
		WILL IT ADDITION	-
SHOW ABSTRACT	š.	A No Access - March 2016	
		Analytical comparison of circular diaphragm based simple,	
No Access . March 2016		single and double touch mode - MEMS capacitive pressure	
Different types of maximum power point tracking technique	es	sensor	
for renewable energy systems: A survey		Sumit Kumar Jindal and Sanjeev Kumar Raghuwanshi	
Mohammad Junaid Khan, Praveen Shukla, Rashid Mustafa, S. Chatterji and Lini Mathe	w	AIP Conference Proceedings 1715, 020018 (2016); https://doi.org/10.1063/1.4942700	
AIP Conference Proceedings 1715, 020015 (2016); https://doi.org/10.1063/1.4942697		The state of the s	
	inter /	SHOW ABSTRACT	:
SHOW ABSTRACT	1	many particular to the second	-
	MINISTER OF THE PARTY OF THE PA		

Comparative analysis of DG and solar PV water pumping system	AIP Conference Proceeding
Kusum Tharani and Ratna Dahiya AIP Conference Proceedings 1715, 020019 (2016); https://dol.org/10.1063/1.4942701	SHOW ABSTRACT
	dem recent of
SHOW ABSTRACT :	No Access . March 2016
	Performance evalues layer according to
No Access , March 2016	Kota Solomon Raju, Naresi
Series-connected shaded modules to address partial shading conditions in SPV systems	AIP Conference Proceedin
Smita Pareek and Ratna Dahiya	
AIP Conference Proceedings 1715, 020020 (2016); https://doi.org/10.1063/1.4942702	SHOW ABSTRACT
SHOW ABSTRACT :	Δ
	No Access . March 2016  Various power qua
	using FACTS techn
No Access - March 2016	J. Sandeep Soni, N. K. Jan
Custom IC/Embedded IP design for histogram in video processing application	AIP Conference Proceeding
Manoj Pandey, Richa Chaturvedi and S. K. Rai	**************************************
AIP Conference Proceedings 1715, 020021 (2016), https://doi.org/10.1063/1.4942703	SHOW ABSTRACT
SHOW ABSTRACT	
ALEX DESIDES	No Access - March 2016 Solar powered aut
	prevention
No Access . March 2016	Navtej Swaroop Singh, Ish
Logic depth aware context independent timing model	AIP Conference Proceeding
generation	
BROWSE VOLUMES	
SHOW ABSTRACT	Design and experi
	sampling receiver
Control of the Contro	Avantika Singh, Devika S. I Kurnar Singh and Dhanesh
no Access March 2016	AIP Conference Proceeding
Real time gesture based control: A prototype development Deepshikha Bhargava, L. Solanki and Satish Kumar Rai	
AIP Conference Proceedings 1715. 020026 (2016): https://doi.org/10.1063/1.4942708	SHOW ABSTRACT
	The second section is a second
SHOW ABSTRACT :	No Access - March 2016
	Circularly polarize
Ao Access . March 2016	antenna with met applications
Higher order mode of a microstripline fed cylindrical dielectric resonator antenna	K. G. Jangid, N. Choudhar
A. V. Praveen Kumar	AIP Conference Proceeding
AIP Conference Proceedings 1715, 020027 (2016); https://doi.org/10.1063/1.4942709	
	SHOW ABSTRACT
SHOW ABSTRACT :	Sampledon Arrando
	No Access . March 2016
A No Access March 2016	Design of CPW fee polarization for U
MAC layer security issues in wireless mesh networks K. Ganesh Reddy and P. Santhi Thilagam	N. Choudhary, A. Tiwari, F
AIP Conference Proceedings 1715, 020028 (2016); https://doi.org/10.1063/1.4942710	Bhatnagar
	AIP Conference Proceedi
SHOW ABSTRACT	SHOW ABSTRACT
	***********
A No Access March 2016	

BROWSE VOLUMES

gs 1715, 020022 (2016); https://doi.org/10.1063/1.4942704 ration of complete data transfer of physical IEEE 802.15.4 standard n Babu Merugu, Neetu and E. Ram Babu gs 1715. 020023 (2016); https://doi.org/10.1063/1.4942705 ality challenges and solution techniques nology for power system galwa, R. Gupta and D. K. Palwalia igs 1715, 020024 (2016); https://doi.org/10.1063/1.4942706 omobile automation for heatstroke an Sharma and Santosh Jangid ngs 1715, 020025 (2016); https://doi.org/10.1063/1.4942707 BROWSE VOLUMES mental characterization of a bandpass Kumar, Gomathy Venkateswaran, Manjukrishna S., Amrendra G. Kurup ng= 1715, 020029 (2016), https://doi.org/10.1063/1.4942711 d triple band glass shaped monopole patch allic reflector for bluetooth & wireless y, P. Jain, B. R. Sharma, J. S. Saini, V. S. Kulhar and D. Bhatnagar ngs 1715, 020030 (2016); https://doi.org/10.1063/1.4942712 d printed slot antenna with circular WB application K. G. Jangid, B. R. Sharma, J. S. Saini, V. S. Kulhar and D. ngs 1715, 020031 (2016): https://doi.org/10.1063/1.4942713

web based remote monitoring and controlling system for vulnerable environments		AIP Conference Proceedings 1715, 020035 (2016); https://doi.org/10.1063/1.4942717	
Aparna Thomas and Minu George			
AJP Conference Proceedings 1715, 020032 (2016); https://doi.org/10.1063/1.4942714		SHOW ABSTRACT	
SHOW ABSTRACT			chorry
		No Access . March 2016  LTE-advanced random access mechanism for M2M	
THE RESIDENCE OF THE PARTY OF T	A. Contract		
No Access . March 2016		communication: A review  Rashid Mustafa, Sandeep Sarowa, Reena Rathee Jaglan, Mohammad Junaid Khan and	
Dual band multi frequency rectangular patch microstrip		Sunil Agrawal	
antenna with flyswatter shaped slot for wireless systems		AIP Conference Proceedings 1715, 020036 (2016); https://doi.org/10.1063/1.4942718	
Dheeraj Bhardwaj, Shriti Saraswat, Citansh Gulati, Snehanshu Shekhar, Kanika Joshi an	d		
Komal Sharma			-
AIP Conference Proceedings 1715, 020033 (2016); https://doi.org/10.1063/1.4942715		SHOW ABSTRACT	ŧ
West and the			eence
SHOW ABSTRACT	1	No Access . March 2016	
	THE REAL PROPERTY.	NB-PLC channel modelling with cyclostationary noise addition	n
Company of the Compan		& OFDM implementation for smart grid	
No Access . March 2016		Togis Thomas and K. K. Gupta	
Phase shifter for antenna beam steering		AIP Conference Proceedings 1715, 020037 (2016); https://doi.org/10.1063/1.4942719	
Ravi Jindal and Tchanguiz Razban			
AIP Conference Proceedings 1715, 020034 (2016); https://doi.org/10.1063/1.4942716		SHOW ABSTRACT	,
AND THE RESERVE OF THE PARTY OF		enders consecute report	
SHOW ABSTRACT	*		-
CONTRACTOR OF STREET	manners .	No Access . March 2016	
	-	Optically controlled quadrature coupler on silicon substrate	
No Access . March 2016		Avanish Bhadauria, Sonia Sharma, Shikha Sonania and Jamil Akhtar	
Transformation of design formulae for feed line of triangula	r	AIP Conference Proceedings 1715, 020038 (2016); https://doi.org/10.1065/1.4942720	
microstrip antenna			-
Monika Mathur, Chanshyam Singh, S. K. Bhatnagar, Swati Swami and Abhijat Vats BROWSE VOLUMES		BROWSE VOLUMES	
DIGHT ASSESSED			
		WMSA for wireless communication applications	
	MATERIAL STATE OF THE STATE OF	Monika Vats, Alok Agarwal and Ravindra Kumar	
	and the second	AIP Conference Proceedings 1715, 020042 (2016); https://doi.org/10.1063/1.4942724	
No Access . March 2016		Ale contains the processings to all account from the processing and all accounts from the processing and account from the processing account from	
GFDM performance in terms of BER, PAPR and OOB and			-
comparison to OFDM system		SHOW ABSTRACT	1
Shwetal K. Antapurkar, Avinash Pandey and K. K. Gupta			
AIP Conference Proceedings 1715, 020039 (2016); https://doi.org/10.1063/1.4942721			-
		€ No Access . March 2016	
CHOW ADETRACT		Bandwidth stretching in interdigital bandpass RF filter on	
SHOW ABSTRACT		silicon substrate using bulk micromachining	
	-	Avanish Bhadauria, Harsh Vardhan Jangid and Kulwant Singh	
		AIP Conference Proceedings 1715, 020043 (2016); https://doi.org/10.1063/1.4942725	
No Access : March 2016			
Size reduction and harmonic supression in coplanar rat-rac	е		-
coupler using defected ground structures		SHOW ABSTRACT	1
Avanish Bhadauria and Sonia Sharma			
AIP Conference Proceedings 1715, 020040 (2016); https://doi.org/10.1063/1.4942722			- Contract
	TOTAL TOTAL	No Access . March 2016	
SHOW ABSTRACT	1	Bandwidth enhancement of electromagnetic coupled	
		nonuniform H-shaped microstrip patch antenna for higher	
	male state	band of Wi-MAX applications	
2		Dheeraj Bhardwaj, Gitansh Gulati, Srishti Saraswat and Komal Sharma	
No Access , March 2016		AIP Conference Proceedings 1715, 020044 (2016); https://doi.org/10.1063/1.4942726	
Simulink models for performance analysis of high speed			
DQPSK modulated optical link			
Lucky Sharan, Rupanshi and V. K. Chaubey		SHOW ABSTRACT	1
AIP Conference Proceedings 1715, 020041 (2016), https://doi.org/10.1063/1.4942723		MITTANA AND THE STATE OF THE ST	-
			No.
SHOW ABSTRACT	1	No Access . March 2016	
	specimen	Particle-In-Cell (PIC) simulation of long-anode magnetron Rajendra Kumar Verma, Shivendra Maurya and Vindhyavasini Prasad Singh	

SHOW ABSTRACT	I
No Access : March 2016  PIC simulation of high efficiency and high powel Industrial magnetron Sandeep Vyas, Shivendra Maurya and V. V. P. Singh	er 14 vane
AIP Conference Proceedings 1715, 020046 (2016); https://doi.org/10.	1063/1.4942728
SHOW ABSTRACT	
No Access . March 2016  Design of spherical electron gun for ultra high f power inductive output tube  Meenu Kaushik and L. M. Joshi	requency, CW
AIP Conference Proceedings 1715, 020047 (2016); https://doi.org/10.	1063/1.4942729
SHOW ABSTRACT	i
No Access . March 2016 Optimal subparametric finite elements for the coutoff wavenumbers in waveguides K. V. Nagaraja, Tattwa Darshi Panda and V. Kesavulu Naidu AIP Conference Proceedings 1715, 020048 (2016); https://doi.org/10	
SHOW ABSTRACT	
BROWSE VOLUMES	
i i	
Ayan Kumar Bandyopadhyay, Debasish Pal, Anii Saini, Deepender Ki Laiit Mohan Joshi AIP Conference Proceedings 1715, 020052 (2016): https://doi.org/10	
SHOW ABSTRACT	·····
SHOW ABSTRACT	
No Access . March 2016 Improving the performance of cardiac abnormation PCC signal N. R. Sujit, C. Santhosh Kumar and C. B. Rajesh AIP Conference Proceedings 1715, 020053 (2016); https://doi.org/10	
SHOW ABSTRACT	
Multilingual vocal emotion recognition and classack propagation neural network  Apoorva J. Kayal and Jagannath Nirmal  AIP Conference Proceedings 1715, 020054 (2016); https://doi.org/10	
SHOW ABSTRACT	0

for face recognition using MATLAB Mahesh Kumar Sharma, Shashikant Sharma, Nopbhorn Leeprechanon and Aashish Ranjan AIP Conference Proceedings 1715. 020055 (2016); https://doi.org/10.1063/1.4942737 BROWSE VOLUMES

Design of a multi beam klystron cavity from its single beam parameters Despender Kant, L. M. Joshi and Vijay Janyani UIP Conference Proceedings 1715, 020049 (2016). https://doi.org/10.1063/1.4942731  DINOW ABSTRACT  INDUSTRIES Design and investigation of planar technology based ultra- wideband antenna with directional radiation patterns M. L. Meena, Girish Parmar and Mithilesh Kumar AP Conference Proceedings 1715, 020090 (2010). https://doi.org/10.1003/1.4942732  SHOW ABSTRACT  INDUSTRIES Size, gain and bandwidth trade-offs for wideband diamond dipole with AMC reflector Chetan Joshi, Anne Claire Lepage, Julien Sarrazin and Xarver Begaud AMP Conference Proceedings 1715, 020051 (2016). https://doi.org/10.1065/1.4942733  SHOW ABSTRACT  INDUSTRIES SHOW ABSTRACT  IND		
Design and Investigation of planar technology based ultra- wideband antenna with directional radiation patterns M. L. Meena, Girish Parmar and Mithilesh Kumar  AP Conference Proceedings 1715, 020030 (2010), https://doi.org/10.1063/1.4942732  SHOW ABSTRACT  SHOW ABSTRACT  AN Access . March 2016  Size, gain and bandwidth trade-offs for wideband diamond dipole with AMC reflector Chetan Joshi, Anne Claire Lepage, Julien Sarrazin and Xavier Begaud  AIP Conference Proceedings 1715, 020031 (2016), https://doi.org/10.1063/1.4942733  SHOW ABSTRACT  SHOW ABSTRACT  Mo Access . March 2016  Design of a Ku band miniature multiple beam klystron BROWSE VOLUMES  SHOW ABSTRACT  MO Access . March 2016  SHOW ABSTRACT  SHOW ABSTRACT  SHOW ABSTRACT  MO Access . March 2016  No Access .	parameters	
SHOW ABSTRACT  AND Access - March 2016 Size, gain and bandwidth trade-offs for wideband diamond dipole with AMC reflector Chetan Joshi. Anne Claire Lepage, Julien Serrazin and Xavier Begaud AND Conference Proceedings 1715, 020050 (2016); https://doi.org/10.1063/1.4942733  SHOW ABSTRACT  AND Access - March 2016 Size, gain and bandwidth trade-offs for wideband diamond dipole with AMC reflector Chetan Joshi. Anne Claire Lepage, Julien Serrazin and Xavier Begaud AND Conference Proceedings 1715, 020051 (2016); https://doi.org/10.1063/1.4942733  SHOW ABSTRACT  AND Access - March 2016 Browse VOLUMES  SHOW ABSTRACT  SHOW ABSTRACT  AND Access - March 2016 Conference Proceedings 1715, 020056 (2016); https://doi.org/10.1063/1.4942738  ACCUTACY Comparison among different machine learning techniques for detecting malicious codes  Komal Narang AND Conference Proceedings 1715, 020056 (2016); https://doi.org/10.1063/1.4942738  SHOW ABSTRACT  NO Access - March 2016 A Contrast enhancement technique for low light images Anklis Singh and K. K. Gupta  AND Conference Proceedings 1715, 020057 (2016); https://doi.org/10.1063/1.4942739  SHOW ABSTRACT  AND Access - March 2016 A Conference Proceedings 1715, 020057 (2016); https://doi.org/10.1063/1.4942739  SHOW ABSTRACT  AND Access - March 2016 A Conference Proceedings 1715, 020057 (2016); https://doi.org/10.1063/1.4942739  SHOW ABSTRACT  AND Access - March 2016 A No Access		
Design and investigation of planar technology based ultra- wideband antenna with directional radiation patterns M. L. Meena, Girish Parmar and Mithilesh Kumar  MP Conference Proceedings 1715, 020030 (2016); https://doi.org/10.1063/1.4942732  SHOW ABSTRACT  STORM ABSTRACT  M No Access . March 2016  Accuracy comparison among different machine learning techniques for detecting malicious codes  Komal Narang  AIP Conference Proceedings 1715, 020056 (2016); https://doi.org/10.1063/1.4942738  SHOW ABSTRACT  No Access . March 2016  A Contrast enhancement technique for low light images  Ankika Singh and K. K. Gupta  AIP Conference Proceedings 1715, 020057 (2016); https://doi.org/10.1063/1.4942739  SHOW ABSTRACT  No Access . March 2016  A Conference Proceedings 1715, 020057 (2016); https://doi.org/10.1063/1.4942739  SHOW ABSTRACT  No Access . March 2016  A Conference Proceedings 1715, 020057 (2016); https://doi.org/10.1063/1.4942739  SHOW ABSTRACT  No Access . March 2016  An Inventory model with linear holding cost and stock- dependent demand for non-instantaneous deteriorating items  Satish Kumar, A. K. Malik, Abhishek Sharma, S. K. Yadav and Yashveer Singh		
Design and investigation of planar technology based ultra- wideband antenna with directional radiation patterns  M. L. Meena, Girish Parmar and Mithiesh Kumar  MP Conference Proceedings 1715, 020030 (2016); https://doi.org/10.1063/1.4942732  SHOW ABSTRACT  SHOW ABSTRACT  NO Access . March 2016  Show Abstract :  NO Access . March 2016  Design of a Ku band miniature multiple beam klystron  BPOWSE VOLUMES  SHOW ABSTRACT  NO Access . March 2016  Accuracy comparison among different machine learning techniques for detecting malicious codes  Komal Narang  AIP Conference Proceedings 1715, 020056 (2016); https://doi.org/10.1063/1.4942738  SHOW ABSTRACT  SHOW ABSTRACT  NO Access . March 2016  Accuracy comparison among different machine learning techniques for detecting malicious codes  Komal Narang  AIP Conference Proceedings 1715, 020056 (2016); https://doi.org/10.1063/1.4942738  SHOW ABSTRACT  NO Access . March 2016  A contrast enhancement technique for low light images  Ankika Singh and K. K. Gupta  AIP Conference Proceedings 1715, 020057 (2016); https://doi.org/10.1063/1.4942739  SHOW ABSTRACT  NO Access . March 2016  A n Inventory model with linear holding cost and stock- dependent demand for non-instantaneous deteriorating items  Satish Kumar, A. K. Malik, Abhishek Sharma, S. K. Yadav and Yashveer Singh.	NP Conference Proceedings 1715, 020049 (2016); https://doi.org/10.1065/1.4942731	
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## Dual Band Multi Frequency Rectangular Patch Microstrip Antenna with Flyswatter Shaped Slot for Wireless Systems

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Abstract. In this paper a dual band planar antenna has been proposed for IEEE 802.16 Wi-MAX /IEEE 802.11 WLAN/ 4.9 GHz public safety applications. The antenna comprises a frequency bandwidth of 560MHz (3.37GHz-3.93GHz) for WLAN and WiMAX and 372MHz (4.82GHz-5.192GHz) for 4.9 GHz public safety applications and Radio astronomy services (4.8-4.94 GHz). The proposed antenna constitutes of a single microstrip patch reactively loaded with three identical steps positioned in a zig-zag manner towards the radiating edges of the patch. The coaxially fed patch antenna characteristics (radiation pattern, antenna gain, antenna directivity, current distribution, S<sub>11</sub>) have been investigated. The antenna design is primarily focused on achieving a dual band operation.

## INTRODUCTION

Wireless technology has been advancing for the last two decades, with the advent of fourth generation communication technology. WiMAX(Wireless Interoperability for Microwave Access) has gained considerable importance in numerous applications such as broadband services (Voice over IP), wireless backhauling, wireless mesh networks with improved quality of service. It has been the central topic to solve the problem of unsatisfied infrastructure for wired services in remote areas where the large coverage area is needed.

Microstrip patch antennas also known as low-profile printed circuit antennas due to its low cost, planar structure, conformability, lightweight and compact-size have been widely used in the present-day wireless communication systems. In the emerging applications such as WLAN, WiMAX, GSM, vehicular-satellite systems, synthetic aperture radar (SAR) etc., in which increased bandwidth is needed for operating at two separate sub-bands, a valid alternative to the broadening of total bandwidth is the use of dual-band resonating patch antennas covering a considerable amount of bandwidth in each application specific band. When the system requires operation at two different frequencies, dual-band patch antenna may avoid the use of two different antennas; thus adding freedom to design.

Apart from the bandwidth, the two major areas of concern while designing dual-band patch antenna are the radiation performance and gain-bandwidth product which plays a crucial role in overall deployment of antenna for

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