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Editorial

Wireless technology is very much in demand these days. There are different Directions of Arrival (DOA) techniques by which we can estimate the incoming signals the comparison between different Directions of Arrival techniques such as Sub Array beam forming based DOA, Capon & MUSIC (Multiple Signals Classification) DOA. Sub Array Beam forming based Direction of Arrival Estimation (SBDOA) technique is used & then comparison with other existing techniques. SBDOA technique gives the best results than other existing techniques.

A chirped short intense laser pulse in vacuum in external magnetic field studied as well as the variation of field & phase is studied.

Designing of combinational circuits using Inhibitor. Why INHIBITOR? Already we have NAND AND NOR Gate which are known universal gate. There is another universal gate "INHIBITOR". The purpose of using this gate is to reduce propagation delay.

Magnetic sensors are widely used in various applications such as consumer electronic products (mobile phones, laptops), biomedical applications (brain function mapping), navigation, vehicle detection, mineral prospecting, non contact switching (keyboard), contactless temperature measurement, wireless sensor network etc. Sensitivity of MagFET devices towards magnetic field, depends on the shape, dimensions VGS, VDS. In this paper we have measured effect of Physical design of gate on sensitivity of MagFET.

A Dual band SIW Bowtie Antenna for X – Band applications is presented. The SIW technology has been used to design the antenna in a bow tie structure. The antenna has a dual band working at frequencies 10.19 GHz and 11.12 GHz. The simulated gains at these frequencies are 10 dB and 8.6 dB respectively. HFSS simulation software is used for all the simulations.

Solar energy is playing a pivotal role in compensating the electrical energy. As we all know that there is short fall in this energy due to more demand and decline trends of conventional source of energies and exhaustion of fuels like coal, petroleum, natural gases. To cope up with this trend of energy photovoltaic installation is being done in an electrical system to compensate and enhance the energy. Filtering data in real-time requires dedicated hardware to meet demanding time requirements. If the statistics of the signal are not known, then adaptive filtering algorithms can be implemented to estimate the signals statistics iteratively. Modern Field

A newly wired network was needed to get online. Even wired telephones are becoming a thing of past. Nowadays, Mobile networks have full-blown tremendously in the last four decades. The inception was the Cellular concept which was introduced with 1G, where, 'G' stands for generation networks. It had grown so fast, from generation to generation, nurturing from 1G, 2G, 3G, and finally, launched to 4G. And, today, we are using 4G technologies. And, also, 5G technology is almost ready to spread its wings to storm this competitive global mobile network market. Integrated Research on 5G is being carried on and is expected to come in usage commercially by 2020.

Preface

Dear Researchers,

We take this opportunity to welcome you all to the Volume No 6, Issue No. 1 of International Journal of Communications & Electronics (KIET - IJCE). This journal will provide a forum for in depth and substantial discussions on the theory, design and implementation of the emerging technologies in Communications, Networking, Microwave and Electronics techniques, thus providing solutions and strategies for business resilience.

It gives us an immense pleasure to have an amalgam of researchers from the fields of Communication Engineering, Electronics, and related technologies. The purpose of the Journal is to provide a platform to foster interdisciplinary communication among the delegates and to support the sharing process of diverse fields in various concepts and principles related to these domains.

Our appreciation also goes to entire team whose dedication and timeless efforts have gone for number of days for the second issue of the Journal.

Editors



Message

I am delighted to note that the Department of Electronics and Communication Engineering, KIET Group of Institutions, Ghaziabad is introducing Volume No 6, Issue No. 1 of International Journal of Communications and Electronics (KIET - IJCE).

I appreciate the efforts on the part of the Editorial Committee in bringing out an issue on Communications, Networking, Microwave and Electronics techniques.

I understand that the papers contributed for publication in the Volume No 6, Issue No. 1 are on almost all the current aspects of Communication Systems, Electronics systems, Microwave Engineering, Signal Processing & Applications, Networking Technologies and several others.

I have great pleasure in congratulating the Editors of this issue of KIET - IJCE for their untiring efforts in bringing out this sixth Volume No 6, Issue No. 1 of KIET-IJCE which will be a valued treasure for all who pursue research in Communications, Networking, Microwave and Electronics Engineering areas.

Let me close with warmest regards.

Dr. (Col) A Garg
Director
KIET



It is our pleasure that KIET is releasing the sixth volume of International Journal of Communications and Electronics (KIET - IJCE). Education is the base for building a good nation and we feel proud to be the contributor of such transformational nation.

I appreciate the efforts on the part of the Editorial Committee in bringing out an issue on Communications, Networking, Microwave and Electronics techniques.

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Dr Manoj Goel
Joint Director
KIET



Message

It gives me immense pleasure in writing this foreword for the Volume No 6, Issue No.1 of the KIET International Journal on Communications and Electronics (KIET - IJCE). This journal is targeted towards researchers, professionals, educators and students to share innovative ideas, issues, recent trends and future directions in the fields of Electronics and Communication Engineering.

The Volume No 6, Issue No. 1 of the journal KIET-IJCE includes papers on the theory, design and implementation of the emerging technologies in the field of Communications, Networking, Microwave and Electronics techniques. Furthermore, it will enable the researchers in various domains to foster the exchange of concept, prototypes, research ideas and the results of research work which could contribute to the academic arena and also benefit business and industrial community.

Dr. Sanjay Sharma
Editor – in - chief
KIET - IJCE