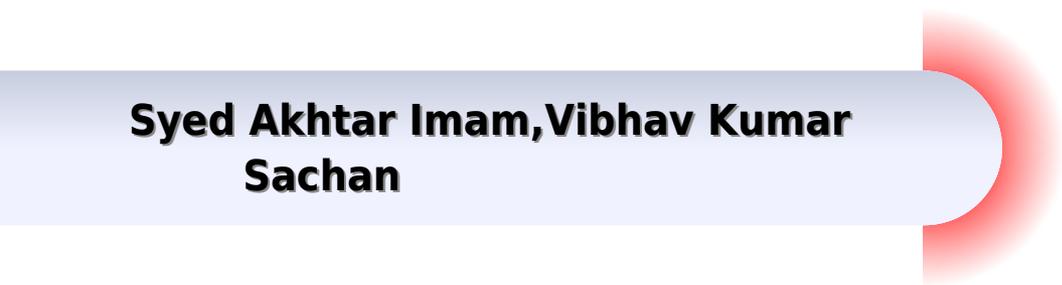




Department Of Electronics And Instrumentation Engineering

**Syed Akhtar Imam, Vibhav Kumar
Sachan**



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Intelligent Communication, Control and Devices Sushabhan Choudhury,Ranjan Mishra,Raj Gaurav Mishra,Adesh Kumar,2019-08-28 The book focuses on the integration of intelligent communication systems control systems and devices related to all aspects of engineering and sciences It includes high quality research papers from the 3rd international conference ICICCD 2018 organized by the Department of Electronics Instrumentation and Control Engineering at the University of Petroleum and Energy Studies Dehradun on 21 22 December 2018 Covering a range of recent advances in intelligent communication intelligent control and intelligent devices the book presents original research and findings as well as researchers and industrial practitioners practical development experiences of Medical Big Data and Internet of Medical Things About Hassanien,Nilanjan Dey,Surekha Borra,2018-10-25 Big data and the Internet of Things IoT play a vital role in prediction systems used in biological and medical applications particularly for resolving issues related to disease biology at different scales Modelling and integrating medical big data with the IoT helps in building effective prediction systems for automatic recommendations of diagnosis and treatment The ability to mine process analyse characterize classify and cluster a variety and wide volume of medical data is a challenging task There is a great demand for the design and development of methods dealing with capturing and automatically analysing medical data from imaging systems and IoT sensors Addressing analytical and legal issues and research on integration of big data analytics with respect to clinical practice and clinical utility architectures and clustering techniques for IoT data processing effective frameworks for removal of misclassified instances practicality of big data analytics methodological and technical issues potential of Hadoop in managing healthcare data is the need of the hour This book integrates different aspects used in the field of healthcare such as big data IoT soft computing machine learning augmented reality organs on chip personalized drugs implantable electronics integration of bio interfaces and wearable sensors devices practical body area network BAN and architectures of web systems Key Features Addresses various applications of Medical Big Data and Internet of Medical Things in real time environment Highlights recent innovations designs developments and topics of interest in machine learning techniques for classification of medical data Provides background and solutions to existing challenges in Medical Big Data and Internet of Medical Things Provides optimization techniques and programming models to parallelize the computationally intensive tasks in data mining of medical data Discusses interactions advantages limitations challenges and future perspectives of IoT based remote healthcare monitoring systems Includes data privacy and security analysis of cryptography methods for the Web of Medical Things WoMT Presents case studies on the next generation medical chair electronic nose and pill cam are also presented Hybrid Intelligence for Smart Grid Systems Seelam VSV Prabhu Deva Kumar,Shyam Akashe,Hee-Je Kim,Chinmay Chakraborty,2021-10-21 This book provides an overview of distributed control and distributed optimization theory followed by specific details on industrial applications to smart grid systems It discusses the fundamental analysis and

design schemes for developing actual working smart grids and covers all aspects concerning the conventional and nonconventional methods of their use Hybrid Intelligence for Smart Grid Systems provides an overview of a smart grid along with its needs benefits challenges and existing structure and describes the inverter topologies adopted for integrating renewable power and provides an overview of its needs benefits challenges and possible future technologies This pioneering book is a must read for researchers engineering professionals and students giving them the tools needed to move from the concept of a smart grid to its actual design and implementation Moreover it will enable regulators policymakers and energy executives to understand the future of energy delivery systems towards safe economical high quality power delivery in a dynamic and demanding environment Electronic Measurement and Instrumentation Syed Akhtar Imam,Vibhav Kumar Sachan,2023-01-10 Electronic Measurement Instrumentation caters to the needs of the undergraduate courses in the disciplines of Electronics Communication Engineering Electronics Instrumentation Engineering Electrical Electronics Engineering Instrumentation and Control Engineering and postgraduate students specializing in Electronics and Control Engineering It will also serve as reference material for working engineers **VAS BROCHURE 2018** VAST, Vidya Academy of Science Technology VAST is a state of the art engineering college conforming to international standards This model engineering college is approved by AICTE and affiliated to the University of Calicut APJ AKTU Kerala In few years VAST has evolved and achieved recognition as a notable School of Engineering with its competent and committed faculty high quality infrastructure and high technology teaching aids and by providing a serene atmosphere that complements academic life VAST has a holistic approach to education where academic training goes hand in hand with offerings that develop the body mind and soul to prepare its graduates to be future leaders *Contemporary Applications of Data Fusion for Advanced Healthcare Informatics* Karthick, G.S.,Karupusamy, Sathishkumar,2023-08-01 Blockchain and artificial intelligence AI techniques play a crucial role in dealing with large amounts of heterogeneous multi scale and multi modal data coming from the internet of things IoT infrastructures Therefore further discussion on how the fusion of blockchain IoT and AI allows the design of models mathematical models methodologies algorithms evaluation benchmarks and tools to address challenging problems related to health informatics healthcare and wellbeing is required Contemporary Applications of Data Fusion for Advanced Healthcare Informatics covers the integration of IoT and AI to tackle applications in smart healthcare and discusses the efficient means to collect monitor control optimize model and predict healthcare data using blockchain AI and IoT The book also considers the advantages and improvements in the smart healthcare field in which ubiquitous computing and traditional computational methods alone are often inadequate Covering key topics such as disruptive technology electronic health records and medical data this premier reference source is ideal for computer scientists nurses doctors industry professionals researchers academicians scholars practitioners instructors and students **Handbook of Universities** ,2006 *National Bureau of Standards Report* United States. National Bureau of Standards,1962 Basic

Electronics Engineering Syed Akhtar Imam, Vibhav Kumar Sachan, 2016-01-01 Basic Electronics Engineering is written to cater to the needs of the undergraduate courses in the discipline of Electronics Communication Engineering Computer Science Engineering Information Technology Electronics Instrumentation Engineering Electrical Electronics Engineering and postgraduate students specializing in Electronics It will also serve as reference material for engineers employed in industry The fundamental concepts and principles behind digital logic designs are explained in a simple easy to understand manner Each chapter contains a large number of solved examples and problems This textbook is organized into thirteen chapters covering the syllabus requirements The last chapter gives the possible experiments of digital logic design that can be done by students of B E B Tech level

Basic Electrical Engineering: Principles, Designs and Applications Vibhav Kumar Sachan, Syed Akhtar Imam, 2024-11-18 Basic Electrical Engineering Principles Designs and Applications has been widely utilized in recent years in electrical engineering microprocessors electrical drives and power electronics research among other fields This book aims to cater to the needs of the undergraduate courses in the discipline of Electronics Communication Engineering Electronics Instrumentation Engineering Electrical Electronics Engineering Instrumentation and Control Engineering and postgraduate students specializing in Electronics Control Engineering It will also serve as reference material for engineers employed in industry The fundamental concepts and principles behind transformers three phase circuits and electrical generators and motors are explained in a simple easy to understand manner Each chapter contains a good number of short answers and of multiple choice questions with explanation which makes the book quite useful for Indian Engineering Service IES Graduate Aptitude Test in Engineering GATE National Eligibility Test NET State Eligibility Test SET University Grants Commission Council of Scientific Industrial Research UGC CSIR and other entrance examinations

PRINCIPLES OF ELECTRONIC INSTRUMENTATION PATRANABIS, D., 2008-02-21 This text offers comprehensive coverage of electronic instruments and electronics aided measurements highlighting the essential components of digital electronic instrumentation and the principles involved in electrical and electronic measurement processes It also explains the stages involved in data acquisition systems for acquiring manipulating processing storing displaying and interpreting the sought for data The principal instruments presented in this book include cathode ray oscilloscope CRO analyzers signal generators oscillators frequency synthesizers sweep generators function generators and attenuators Besides the book covers several laboratory meters such as phase meters frequency meters Q meters wattmeters energy meters power factor meters and measurement bridges Also included are a few important sensors and transducers which are used in the measurement of temperature pressure flow rate liquid level force etc The book also emphasizes the growing use of fibre optic instrumentation It explains some typical fibre optic sensing systems including the fibre optic gyroscope Some applications of optical fibre in biomedical area are described as well The book is intended for a course on Electronic Measurements and Instrumentation prescribed for B E B Tech students of Electronics and Instrumentation Engineering Electronics and Communication

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Contemporary Developments in Agricultural Cyber-Physical Systems Karthick, G.S.,2023-08-01 The cultivation of crops plays a very important role in agriculture However proper maintenance and management are required Lack of such management would lead to crop loss or reduced crop yields Hence the ability to detect and identify diseases on infected crops is a problem of increasing concern Real time disease detection systems do not exist in the current agricultural landscape It requires tremendous amounts of work expertise in plant diseases and excessive processing time Using precision agriculture techniques combined with AI a great deal of work is reduced Contemporary Developments in Agricultural Cyber Physical Systems provides a forum for researchers and practitioners to exchange ideas and achieve progress in cyber physical systems by highlighting agricultural applications advances and research challenges The book features chapters on all aspects pertaining to this multidisciplinary paradigm in particular in its application to sustainable agriculture developments Covering topics such as automation monitoring systems and smart agriculture this premier reference source is an excellent resource for scientists healthcare professionals data analysts computer scientists students and educators of higher education researchers and academicians

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