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ENGINEERING GRAPHICS - K. C. JOHN 2009-07-13

This book provides a detailed study of geometrical drawing through simple and well-explained worked-out examples and exercises. This book is designed for students of first year Engineering Diploma course, irrespective of their branches of study. The book is divided into seven modules. Module A covers the fundamentals of manual drafting, lettering, freehand sketching and dimensioning of views. Module B describes two-dimensional drawings like geometrical constructions, conics, miscellaneous curves and scales. Three-dimensional drawings, such as projections of points, lines, plane lamina, geometrical solids and their different sections are well-explained in Module C. Module D deals with intersection of surfaces and their developments. Drawing of pictorial views is illustrated in Module E, which includes isometric projection, oblique projection and perspective projections. The fundamentals of machine drawing are covered in Module F. Finally, in Module G, the book introduces computer-aided drafting (CAD) to make the readers familiar with the state-of-the-art techniques of drafting. **KEY FEATURES :** Follows the International Standard Organization (ISO) code of practice for drawing. Includes a large number of dimensioned illustrations, worked-out examples, and Polytechnic questions and answers to explain the geometrical drawing process. Contains chapter-end exercises to help students develop their drawing skills.

Intelligent Systems for Healthcare Management and Delivery -

Bouchemal, Nardjes 2018-12-07

With the growing use of new technologies and artificial intelligence (AI) applications, intelligent systems can be used to manage large amounts of existing data in healthcare domains. Having more intelligent methods for accessing data allows medical professionals to more efficiently identify the best medical practices and more concrete solutions for diagnosing and treating a multitude of rare diseases. Intelligent Systems for Healthcare Management and Delivery provides relevant and advanced methodological, technological, and scientific approaches related to the application of sophisticated exploitation of AI, as well as providing insight into the technologies and intelligent applications that have received growing attention in recent years such as medical imaging, EMR systems, and drug development assistance. This publication fosters a scientific debate for new healthcare intelligent systems and sophisticated approaches for enhanced healthcare services and is ideally designed for medical professionals, hospital staff, rehabilitation specialists, medical educators, and researchers.

Roots and Wings - Shantha Mohan 2018-08-31

Are you wondering if engineering, science, or business will work as a career choice for a young woman? Do you question if a woman can pursue a successful career in these fields while enjoying a satisfying

family life and still find a way to make meaningful social contributions? Then this book, which chronicles the lives and careers of women who managed to do just that, is the one for you. These 29 women all graduated from the oldest engineering college in India sometime between 1943 and 1971. This was a difficult time for these pioneering women to pursue their chosen path, yet they all went on to make their mark in their unique ways in various fields of work in India as well as the USA. Overcoming several obstacles to their careers, they managed to find a good balance between family and work. A few were, and are, also great community leaders. Their lives are models of courage, initiative, perseverance, innovation, entrepreneurship, resilience and flexibility. Enjoy the stories of these courageous women and be inspired.

Industrial Instrumentation - 2005

This Book Has Been Designed As A Textbook For The Students Of Electronics Instrumentation And Control Engineering Courses Offered In Technical Universities All Over India And In Particular The Anna University, Chennai. The Topics Mainly Cover The Type Of Instruments For The Measurements And Control Of Process Variables In Various Industries. The Book Is An Outcome Of One Of The Authors' Vast Industrial Experience And His Academic Eminence. The Book Contains 7 Chapters In All. Chapter 1 Describes The Basic Concepts Of Temperature And Temperature Measuring Instruments. Chapter 2 Covers All Possible Types Of Pressure Detectors. Chapter 3 Gives Fundamentals Of Force, Torque And Velocity Whereas The Chapter 4 Is Devoted For Acceleration, Vibration And Density Measurements. While Chapter 5 Dealing With Complete Range Of Flow Meters. Chapter 6 Covers All Types Of Level Measurements. The Last Chapter 7 Describes The Basic Concepts With Reference To Measurements Of Viscosity, Humidity And Moisture. The Book Would Serve As An Extremely Useful Text For Electronics And Instrumentation Students And As A Reference For The Students Of Other Branches. In Addition, It Will Serve As A Reference Book For The Professionals In Instrumentation Field In Various Industries.

Design and Modeling of Low Power VLSI Systems - Sharma, Manoj

2016-06-06

Very Large Scale Integration (VLSI) Systems refer to the latest development in computer microchips which are created by integrating hundreds of thousands of transistors into one chip. Emerging research in this area has the potential to uncover further applications for VLSI technologies in addition to system advancements. Design and Modeling of Low Power VLSI Systems analyzes various traditional and modern low power techniques for integrated circuit design in addition to the limiting factors of existing techniques and methods for optimization. Through a research-based discussion of the technicalities involved in the VLSI hardware development process cycle, this book is a useful resource for researchers, engineers, and graduate-level students in computer science and engineering.

Intelligent Technologies in Science, Engineering and Management - S.Kannadhasan

Evolutionary Computation with Intelligent Systems - R.S. Chauhan
2022-03-29

This book focuses on cutting-edge innovations and core theories, principles, and algorithms applicable to a wide area. Real-life applications, case studies, and examples are included along with emerging trends, design, and optimized solutions pivoting around the needs of Society 5.0. Evolutionary Computation with Intelligent Systems: A Multidisciplinary Approach to Society 5.0 provides a holistic view of evolutionary computation techniques including principles, procedures, and future applications with real-life examples. The book comprehensively explains evolutionary computation, design, principles, development trends, and optimization and describes how it can transform the operating context of the organization. It exemplifies the potential of evolutionary computation for the next generation and the role of cloud computing in shaping Society 5.0. It also provides insight into various platforms, paradigms, techniques, and tools used in diverse fields. This book appeals to a variety of readers such as academicians, researchers, research scholars, and postgraduates.

Intelligent Computing in Engineering - Vijender Kumar Solanki
2020-04-09

This book comprises select papers from the international conference on Research in Intelligent and Computing in Engineering (RICE 2019) held at Hanoi University of Industry, Hanoi, Vietnam. The volume focuses on current research on various computing models such as centralized, distributed, cluster, grid and cloud. The contents cover recent advances in wireless sensor networks, mobile ad hoc networks, internet of things, machine learning, grid and cloud computing, and their various applications. The book will help researchers as well as professionals to gain insight into the rapidly evolving fields of internet computing and data mining.

A TEXTBOOK OF ENGINEERING CHEMISTRY - SYAMALA SUNDAR DARA 2008

Any good text book, particularly that in the fast changing fields such as engineering & technology, is not only expected to cater to the current curricular requirements of various institutions but also should provide a glimpse towards the latest developments in the concerned subject and the relevant disciplines. It should guide the periodic review and updating of the curriculum.

Intelligent Computing and Innovation on Data Science - Sheng-Lung Peng 2020-05-14

This book covers both basic and high-level concepts relating to the intelligent computing paradigm and data sciences in the context of distributed computing, big data, data sciences, high-performance computing and Internet of Things. It is becoming increasingly important to develop adaptive, intelligent computing-centric, energy-aware, secure and privacy-aware systems in high-performance computing and IoT applications. In this context, the book serves as a useful guide for industry practitioners, and also offers beginners a comprehensive introduction to basic and advanced areas of intelligent computing. Further, it provides a platform for researchers, engineers, academics and industrial professionals around the globe to showcase their recent research concerning recent trends. Presenting novel ideas and

stimulating interesting discussions, the book appeals to researchers and practitioners working in the field of information technology and computer science.

Advances in Optical Science and Engineering - Indrani Bhattacharya
2017-09-21

The Proceedings of 3rd International Conference on Opto-Electronics and Applied Optics, OPTRONIX 2016 is an effort to promote and present the research works by scientists and researchers including students in India and abroad in the area of Green Photonics and other related areas as well as to raise awareness about the recent trends of research and development in the area of the related fields. The book has been organized in such a way that it will be easier for the readers to go through and find out the topic of their interests. The first part includes the Keynote addresses by Rajesh Gupta, Department of Energy Science and Engineering, Indian Institute of Technology, Bombay; P.T. Ajith Kumar, President and Leading Scientist Light Logics Holography and Optics, Crescent Hill, Trivandrum, Kerala; and K.K. Ghosh, Institute of Engineering & Management, Kolkata, India. The second part focuses on the Plenary and Invited Talks given by eminent scientists namely, Vasudevan Lakshminarayanan, University of Waterloo, Canada; Motoharu Fujigaki, University of Fukui, Japan; Takeo Sasaki, Tokyo University of Science, Japan; Kehar Singh, Former Professor, Indian Institute of Technology, Delhi, India; Rajpal S. Sirohi, Tezpur University, India; Ajoy Kumar Chakraborty, Institute of Engineering & Management, India; Lakshminarayan Hazra, Emeritus Professor, Calcutta University, India; S.K. Bhadra, Emeritus Scientist, Indian Institute of Chemical Biology, India; Partha Roy Chaudhuri, Department of Physics, Indian Institute of Technology, Kharagpur, India; Navin Nishchal, Indian Institute of Technology, Patna, India; Tarun Kumar Gangopadhyay, CSIR-Central Glass and Ceramic Research Institute, India; Samudra Roy, Department of Physics, Indian Institute of Technology, Kharagpur, India; Kamakhya Ghatak, University of Engineering & Management, India. The subsequent parts focus on contributory papers in : Green Photonics; Fibre and Integrated Optics; Lasers, Interferometry; Optical

Communication and Networks; Optical and Digital Data and Image Processing; Opto-Electronic Devices, Terahertz Technology; Nano-Photonics, Bio-Photonics, Bio-Medical Optics; Lasers, Quantum Optics and Information Technology; E. M. Radiation Theory and Antenna; Cryptography; Quantum and Non-Linear Optics, Opto-Electronic Devices; Non-Linear Waveguides; Micro-Electronics and VLSI; Interdisciplinary.

International Conference on Intelligent Data Communication Technologies and Internet of Things (ICICI) 2018 - Jude Hemanth 2018-12-20

This book discusses data communication and computer networking, communication technologies and the applications of IoT (Internet of Things), big data, cloud computing and healthcare informatics. It explores, examines and critiques intelligent data communications and presents inventive methodologies in communication technologies and IoT. Aimed at researchers and academicians who need to understand the importance of data communication and advanced technologies in IoT, it offers different perspectives to help readers increase their knowledge and motivates them to conduct research in the area, highlighting various innovative ideas for future research.

Theory of Structures - R. S. Khurmi 1990

Introductory Biomechanics - C. Ross Ethier 2007-03-12

Introductory Biomechanics is a new, integrated text written specifically for engineering students. It provides a broad overview of this important branch of the rapidly growing field of bioengineering. A wide selection of topics is presented, ranging from the mechanics of single cells to the dynamics of human movement. No prior biological knowledge is assumed and in each chapter, the relevant anatomy and physiology are first described. The biological system is then analyzed from a mechanical viewpoint by reducing it to its essential elements, using the laws of mechanics and then tying mechanical insights back to biological function. This integrated approach provides students with a deeper understanding of both the mechanics and the biology than from qualitative study alone. The text is supported by a wealth of illustrations,

tables and examples, a large selection of suitable problems and hundreds of current references, making it an essential textbook for any biomechanics course.

Campus Plus 2020 - Infokerala Communications Pvt Ltd 2020-08-01
India, bounded by the majestic Himalayan ranges in the North and edged by an endless stretch of golden beaches, is the land of hoary tradition and cultural diverse. Vivid kaleidoscope of landscapes, glorious historical sites and royal cities, misty mountain hideaways, colourful people, rich civilizations and festivities craft India Incredible. Recent years have witnessed the educational scene, especially the higher education sector in the State undergoing a sea change in respect of quality, diversity and accessibility in tune with the global trends. Kerala's surge in the educational front is to be viewed in the backdrop of the country's great legacy in education. India has been a major seat of learning for thousands of years. The country was home to Takshashila, the first university in the world and Aryabhama, the inventor of the digit Zero. In fact, education in Kerala has now become more value added and affordable, thanks to the pro-active initiatives of the State Government and active involvement of the private sector. Moreover, in the higher education market, Kerala has a significant edge in respect of cost which means that there would be growing influx of candidates into the state from outside the state for better and affordable professional education in the days to come. With the most sought after professionals and excellent network of institutes Kerala is becoming the very preferred educational destination in the world. And, we are equipped for you with some elucidations which step-up her significance in the educational map. In Campus Plus, we propose some valuable information along with a number of educational institutes in the State which will be useful for the students and parents in the higher education scenario.

Micro-Electronics and Telecommunication Engineering - Devendra Kumar Sharma 2022-02-28

The book presents high-quality papers from the Fourth International Conference on Microelectronics and Telecommunication Engineering (ICMETE 2021). It discusses the latest technological trends and

advances in major research areas such as microelectronics, wireless communications, optical communication, signal processing, image processing, big data, cloud computing, artificial intelligence and sensor network applications. This book includes the contributions of national and international scientists, researchers, and engineers from both academia and the industry. The contents of this volume will be useful to researchers, professionals, and students alike.

Comp. Optical Communications - N. Bala Saraswathi, I. Ravi Kumar

Fabrication and Self-Assembly of Nanobiomaterials - Alexandru Grumezescu 2016-01-06

Fabrication and Self-Assembly of Nanobiomaterials presents the most recent findings regarding the fabrication and self-assembly of nanomaterials for different biomedical applications. Respected authors from around the world offer a comprehensive look at how nanobiomaterials are made, enabling knowledge from current research to be used in an applied setting. Recent applications of nanotechnology in the biomedical field have developed in response to an increased demand for innovative approaches to diagnosis, exploratory procedures and therapy. The book provides the reader with a strong grounding in emerging biomedical nanofabrication technologies, covering numerous fabrication routes for specific applications are described in detail and discussing synthesis, characterization and current or potential future use. This book will be of interest to professors, postdoctoral researchers and students engaged in the fields of materials science, biotechnology and applied chemistry. It will also be highly valuable to those working in industry, including pharmaceuticals and biotechnology companies, medical researchers, biomedical engineers and advanced clinicians. An up-to-date and highly structured reference source for practitioners, researchers and students working in biomedical, biotechnological and engineering fields. A valuable guide to recent scientific progress, covering major and emerging applications of nanomaterials in the biomedical field. Proposes novel opportunities and ideas for developing or improving technologies in fabrication and self-assembly.

Distributed Computing and Optimization Techniques - Sudhan Majhi

This book introduces research presented at the International Conference on Distributed Computing and Optimization Techniques (ICDCOT2021), a two-day conference, where researchers, engineers, and academicians from all over the world came together to share their experiences and findings on all aspects of distributed computing and its applications in diverse areas. The book includes papers on distributed computing, intelligent system, optimization method, mathematical modeling, fuzzy logic, neural networks, grid computing, load balancing, communication. It will be a valuable resource for students, academics, and practitioners in the industry working on distributed computing.

Clean Energy and Resource Recovery - Vinay Kumar Tyagi
2021-11-10

Clean Energy and Resource Recovery: Wastewater Treatment Plants as Bio-refineries, Volume 2, summarizes the fundamentals of various treatment modes applied to the recovery of energy and value-added products from wastewater treatment plants. The book addresses the production of biofuel, heat, and electricity, chemicals, feed, and other products from municipal wastewater, industrial wastewater, and sludge. It intends to provide the readers an account of up-to-date information on the recovery of biofuels and other value-added products using conventional and advanced technological developments. The book starts with identifying the key problems of the sectors and then provides solutions to them with step-by-step guidance on the implementation of processes and procedures. Titles compiled in this book further explore related issues like the safe disposal of leftovers, from a local to global scale. Finally, the book sheds light on how wastewater treatment facilities reduce stress on energy systems, decrease air and water pollution, build resiliency, and drive local economic activity. As a compliment to Volume 1: Biomass Waste Based Biorefineries, Clean Energy and Resource Recovery, Volume 2: Wastewater Treatment Plants as Bio-refineries is a comprehensive reference on all aspects of energy and resource recovery from wastewater. The book is going to be a handy

reference tool for energy researchers, environmental scientists, and civil, chemical, and municipal engineers interested in waste-to-energy. Offers a comprehensive overview of the fundamental treatments and methods used in the recovery of energy and value-added products from wastewater. Identifies solutions to key problems related to wastewater to energy/resource recovery through conventional and advanced technologies and explore the alternatives. Provides step-by-step guidance on procedures and calculations from practical field data. Includes successful case studies from both developing and developed countries.

Computer Vision and Recognition Systems - Chiranjilal Chowdhary
2022-03-10

This cutting-edge volume focuses on how artificial intelligence can be used to give computers the ability to imitate human sight. With contributions from researchers in diverse countries, including Thailand, Spain, Japan, Turkey, Australia, and India, the book explains the essential modules that are necessary for comprehending artificial intelligence experiences to provide machines with the power of vision. The volume also presents innovative research developments, applications, and current trends in the field. The chapters cover such topics as visual quality improvement, Parkinson's disease diagnosis, hypertensive retinopathy detection through retinal fundus, big image data processing, N-grams for image classification, medical brain images, chatbot applications, credit score improvisation, vision-based vehicle lane detection, damaged vehicle parts recognition, partial image encryption of medical images, and image synthesis. The chapter authors show different approaches to computer vision, image processing, and frameworks for machine learning to build automated and stable applications. Deep learning is included for making immersive application-based systems, pattern recognition, and biometric systems. The book also considers efficiency and comparison at various levels of using algorithms for real-time applications, processes, and analysis.

Inventive Systems and Control - V. Suma 2021-06-07

This book presents selected papers from the 5th International Conference on Inventive Systems and Control (ICISC 2021), held on 7-8

January 2021 at JCT College of Engineering and Technology, Coimbatore, India. The book includes an analysis of the class of intelligent systems and control techniques that utilises various artificial intelligence technologies, where there are no mathematical models and systems available to make them remain controlled. Inspired by various existing intelligent techniques, the primary goal is to present the emerging innovative models to tackle the challenges faced by the existing computing and communication technologies. The proceedings of ICISC 2021 aim at presenting the state-of-the-art research developments, trends, and solutions for the challenges faced by the intelligent systems and control community with the real-world applications. The included research articles feature the novel and unpublished research works on intelligent system representation and control.

TRB 2019-20 - Gkp 2019-12-06

TRB (Teacher's Recruitment Board) of Tamil Nadu is conducting examination for the recruitment of Lecturers for different branches of Engineering i.e Computer Science, Mechanical, Civil, Electronics & Communication, and Electrical & Electronics. GK Publication has come up with this set of guides for ?TRB Lecturers (Engineering)? for all the branches of Engineering for the preparation of this Examination. It is divided into sections namely- General Knowledge, Mock tests- I & II, Engineering Mathematics and Technical Section. This set of guides will serve the purpose of providing quality preparation to all the aspirants and will help them ace the examination. Features: 1. Comprehensive Study material 2. Includes Mock Tests 3. In coherence with the exam pattern

Engineering Mathematics-II - A. Ganeshi 2009

About the Book: This book Engineering Mathematics-II is designed as a self-contained, comprehensive classroom text for the second semester B.E. Classes of Visveswaraiah Technological University as per the Revised new Syllabus. The topics included are Differential Calculus, Integral Calculus and Vector Integration, Differential Equations and Laplace Transforms. The book is written in a simple way and is accompanied with explanatory figures. All this make the students enjoy

the subject while they learn. Inclusion of selected exercises and problems make the book educational in nature. It should.

International Conference on Innovative Computing and Communications
- Deepak Gupta 2022-10-28

This book includes high-quality research papers presented at the Fifth International Conference on Innovative Computing and Communication (ICICC 2022), which is held at the Shaheed Sukhdev College of Business Studies, University of Delhi, Delhi, India, on February 19–20, 2022. Introducing the innovative works of scientists, professors, research scholars, students and industrial experts in the field of computing and communication, the book promotes the transformation of fundamental research into institutional and industrialized research and the conversion of applied exploration into real-time applications.

ITSPWC 2022 - S. Kannadhasan 2022-08-04

We are delighted to introduce the proceedings of the first edition of the 2022 International Conference on Intelligent Technologies in Security and Privacy for Wireless Communication (ITSPWC 2022). This conference has brought researchers, developers and practitioners around the world who are leveraging and developing the Wireless Communication. The theme of ITSPWC 2022 was “Security and Challenges for Wireless Communication and Power Energy”. The technical program of ITSPWC 2022 consisted of 33 full papers, including 5 invited papers in oral presentation sessions at the main conference tracks. The conference tracks were: Track 1 - Recent Trends in IoT; Track 2 - Recent Trends in Smart Energy Systems and Transmission; Track 3 - Recent Trends in Embedded Systems; and Track 4 - Recent Trends in Communication Systems. Aside from the high quality technical paper presentations, the technical program also featured one invited talk and two technical workshops. The invited talk was presented by Prof. Kaushik Pal from Universidade Federal do Rio de Janeiro, Brazil. The ITSPWC workshop aimed to gain insights into key challenges, understanding and design criteria of employing wireless technologies to develop and implement future related services and applications. It was a great pleasure to work with such an excellent organizing committee

team for their hard work in organizing and supporting the conference. In particular, the Technical Program Committee, led by our Co-Chairs, Dr.R.Nagarajan, Dr.George Ghinea, Dr.Alagar Karthick, Dr.Bassim Alhadidi and Prof. Kanagaraj Venusamy who have completed the peer-review process of technical papers and made a high-quality technical program. We are also grateful to all the authors who submitted their papers to the ITSPWC 2022 conference and workshops. We strongly believe that ITSPWC conference provides a good forum for all researcher, developers and practitioners to discuss all science and technology aspects that are relevant to Security and Privacy in Wireless Communication. We also expect that the future Wireless Communication conference will be as successful and stimulating, as indicated by the contributions presented in this volume. Dr.S.Kannadhasan

Nutraceuticals and Innovative Food Products for Healthy Living and Preventive Care - Verma, Amit 2017-11-30

The proper nutrition can aid disease prevention and ensure an overall healthy lifestyle. In nutrition, certain natural and processed foods are particularly useful in achieving and maintaining health goals. Nutraceuticals and Innovative Food Products for Healthy Living and Preventive Care is a comprehensive reference source for the latest research findings on food components that provide health and medical benefits, including the prevention, treatment, and cures for numerous diseases. Featuring extensive coverage on relevant areas such as functional foods, alternative medicine, and nutrition, this publication is an ideal resource for medical practitioners, nutritionists, upper-level students, researchers, and academicians seeking information on the use of food products in health management.

The Fundamentals of General Knowledge for Competitive Exams - UPSC/ State PCS/ SSC/ Banking/ Railways/ MBA/ Defence - 4th Edition - Disha Experts

The thoroughly updated 4th edition of the book Current Affairs 2019 captures the Most Important Events, Issues, Ideas & People of 2018 in a very lucid and student friendly manner. It is essential for aspirants to keep themselves updated as just knowing things can get them more

marks in such exams. Moreover Current Affairs prove to be very important tool to handle GD and PI. It comes in handy for the aspirants of UPSC, SSC, Banking, Insurance, Railways, Engg. Services and AFCAT etc. Infographics, Charts and MindMaps have facilitated information quickly and clearly. The information provided is in line with the analysis of previous years' competitive exams papers which will help aspirants update on all happenings across India and the world.

Cognitive Systems and Signal Processing in Image Processing - Yu-Dong Zhang 2021-12-01

Cognitive Systems and Signal Processing in Image Processing presents different frameworks and applications of cognitive signal processing methods in image processing. This book provides an overview of recent applications in image processing by cognitive signal processing methods in the context of Big Data and Cognitive AI. It presents the amalgamation of cognitive systems and signal processing in the context of image processing approaches in solving various real-world application domains. This book reports the latest progress in cognitive big data and sustainable computing. Various real-time case studies and implemented works are discussed for better understanding and more clarity to readers. The combined model of cognitive data intelligence with learning methods can be used to analyze emerging patterns, spot business opportunities, and take care of critical process-centric issues for computer vision in real-time. Presents cognitive signal processing methodologies that are related to challenging image processing application domains Provides the state-of-the-art in cognitive signal processing approaches in the area of big-data image processing Focuses on other technical aspects and alternatives to traditional tools, algorithms and methodologies Discusses various real-time case studies and implemented works

Computing and Network Sustainability - Sheng-Lung Peng 2019-05-02

This book offers a compilation of technical papers presented at the International Research Symposium on Computing and Network Sustainability (IRSCNS 2018) held in Goa, India on 30–31st August 2018.

It covers areas such as sustainable computing and security, sustainable systems and technologies, sustainable methodologies and applications, sustainable networks applications and solutions, user-centered services and systems and mobile data management. Presenting novel and recent technologies, it is a valuable resource for researchers and industry professionals alike.

Communication and Intelligent Systems - Harish Sharma 2022-08-18

This book gathers selected research papers presented at the Third International Conference on Communication and Intelligent Systems (ICCIS 2021), organized by National Institute of Technology, Delhi, India, during December 18–19, 2021. This book presents a collection of state-of-the-art research work involving cutting-edge technologies for communication and intelligent systems. Over the past few years, advances in artificial intelligence and machine learning have sparked new research efforts around the globe, which explore novel ways of developing intelligent systems and smart communication technologies. The book presents single- and multi-disciplinary research on these themes in order to make the latest results available in a single, readily accessible source.

Mechanics and Strength of Materials - Vitor Dias da Silva 2006-01-16

Gives a clear and thorough presentation of the fundamental principles of mechanics and strength of materials. Provides both the theory and applications of mechanics of materials on an intermediate theoretical level. Useful as a reference tool by postgraduates and researchers in the fields of solid mechanics as well as practicing engineers.

Inventive Computation and Information Technologies - S. Smys 2021

This book is a collection of best selected papers presented at the International Conference on Inventive Computation and Information Technologies (ICICIT 2020), organized during 24–25 September 2020. The book includes papers in the research area of information sciences and communication engineering. The book presents novel and innovative research results in theory, methodology and applications of communication engineering and information technologies.

IEEE Membership Directory - Institute of Electrical and Electronics Engineers 2001

Hybrid Artificial Intelligence and IoT in Healthcare - Akash Kumar Bhoi 2021-07-22

This book covers applications for hybrid artificial intelligence (AI) and Internet of Things (IoT) for integrated approach and problem solving in the areas of radiology, drug interactions, creation of new drugs, imaging, electronic health records, disease diagnosis, telehealth, and mobility-related problems in healthcare. The book discusses the convergence of AI and the hybrid approaches in healthcare which optimizes the possible solutions and better treatment. Internet of Things (IoT) in healthcare is the next-gen technologies which automate the healthcare facility by mobility solutions are discussed in detail. It also discusses hybrid AI with bio-inspired techniques, genetic algorithm, neuro-fuzzy algorithms, and soft computing approaches which significantly improves the prediction of critical cardiovascular abnormalities and other healthcare solutions to the ongoing challenging research.

Fluid Mechanics and Fluid Power - T. Prabu 2021-08-03

This book comprises select proceedings of the 46th National Conference on Fluid Mechanics and Fluid Power (FMFP 2019). The contents of this book focus on aerodynamics and flow control, computational fluid dynamics, fluid structure interaction, noise and aero-acoustics, unsteady and pulsating flows, vortex dynamics, nuclear thermal hydraulics, heat transfer in nanofluids, etc. This book serves as a useful reference beneficial to researchers, academicians and students interested in the broad field of mechanics. ^

Intelligent Sustainable Systems - Jennifer S. Raj 2022-08-22

This book features research papers presented at the 5th International Conference on Intelligent Sustainable Systems (ICISS 2022), held at SCAD College of Engineering and Technology, Tirunelveli, Tamil Nadu, India, during February 17-18, 2022. The book discusses latest research works that discusses the tools, methodologies, practices, and applications of sustainable systems and computational intelligence

methodologies. The book is beneficial for readers from both academia and industry.

Engineering Mathematics II - Sergei Silvestrov 2017-02-10

This book highlights the latest advances in engineering mathematics with a main focus on the mathematical models, structures, concepts, problems and computational methods and algorithms most relevant for applications in modern technologies and engineering. It addresses mathematical methods of algebra, applied matrix analysis, operator analysis, probability theory and stochastic processes, geometry and computational methods in network analysis, data classification, ranking and optimisation. The individual chapters cover both theory and applications, and include a wealth of figures, schemes, algorithms, tables and results of data analysis and simulation. Presenting new methods and results, reviews of cutting-edge research, and open problems for future research, they equip readers to develop new mathematical methods and concepts of their own, and to further compare and analyse the methods and results discussed. The book consists of contributed chapters covering research developed as a result of a focused international seminar series on mathematics and applied mathematics and a series of three focused international research workshops on engineering mathematics organised by the Research Environment in Mathematics and Applied Mathematics at Mälardalen University from autumn 2014 to autumn 2015: the International Workshop on Engineering Mathematics for Electromagnetics and Health Technology; the International Workshop on Engineering Mathematics, Algebra, Analysis and Electromagnetics; and the 1st Swedish-Estonian International Workshop on Engineering Mathematics, Algebra, Analysis and Applications. It serves as a source of inspiration for a broad spectrum of researchers and research students in applied mathematics, as well as in the areas of applications of mathematics considered in the book.

Microcontrollers - Ajit Pal 2012-11

Innovations in Electronics and Communication Engineering - H. S. Saini 2019-02-07

This book gathers selected papers presented at the 7th International Conference on Innovations in Electronics and Communication Engineering, held at Guru Nanak Institutions in Hyderabad, India. It highlights contributions by researchers, technocrats and experts regarding the latest technologies in electronic and communication

engineering, and addresses various aspects of communication engineering, including signal processing, VLSI design, embedded systems, wireless communications, and electronics and communications in general. Covering cutting-edge technologies, the book offers a valuable resource, especially for young researchers.