

Engineering Physics 2009

this comprehensive textbook introduces electrical engineering students and engineers to the various aspects of power system dynamics it focuses on explaining and analysing the dynamic performance of such systems which are important for both system operation and planning the aim of this book is to present a comprehensive treatise in order to study the dynamics and simulation of the power networks after going through the complete text the students will be able to understand fundamental dynamic behaviour and controls of power systems and to perform basic stability analysis the topics substantiated by suitable illustrations and computer programs describe analytical aspects of operation and characteristic of power system from the view point of steady state and dynamic condition this text serves as a well knit introduction to power system dynamics and is suitable for a one semester course for the senior level undergraduate students of electrical engineering and postgraduate students specializing in power systems

POWER SYSTEM DYNAMICS AND SIMULATION 2013-04-08

this book presents fascinating state of the art research findings in the field of signal and image processing it includes conference papers covering a wide range of signal processing applications involving filtering encoding classification segmentation clustering feature extraction denoising watermarking object recognition reconstruction and fractal analysis it addresses various types of signals such as image video speech non speech audio handwritten text geometric diagram ecg and emg signals mri pet and ct scan images thz signals solar wind speed signals sws and photoplethysmogram ppg signals and demonstrates how new paradigms of intelligent computing like quantum computing can be applied to process and analyze signals precisely and effectively the book also discusses applications of hybrid methods algorithms and image filters which are proving to be better than the individual techniques or algorithms

Recent Trends in Signal and Image Processing 2019-03-16

soft computing refers to a collection of computational techniques which study model and analyse complex phenomena as many textile engineering problems are inherently complex in nature soft computing techniques have often provided optimum solutions to these cases although soft computing has several facets it mainly revolves around three techniques artificial neural networks fuzzy logic and genetic algorithms the book is divided into five parts covering the entire process of textile production from fibre manufacture to garment engineering these include soft computing techniques in yarn manufacture and modelling fabric and garment manufacture textile properties and applications and textile quality evaluation covers the entire process of textile production from fibre manufacture to garment engineering including artificial neural networks fuzzy logic and genetic algorithms examines soft computing techniques in yarn manufacture and modelling fabric and garment manufacture specifically reviews soft computing in relation to textile properties and applications featuring garment modelling and sewing machines

Soft Computing in Textile Engineering 2016-09-02

this book provides different approaches used to analyze draw attention and provide an understanding of the advancements in the optimization field across the globe it brings all of the latest methodologies tools and techniques related to optimization and industrial engineering into a single volume to build insights towards the latest advancements in various domains applications of advanced optimization techniques in industrial engineering includes the basic concept of optimization techniques

also gives detailed discussion about interviews step by step preparation practical and psychological preparation the dos and don'ts for interview besides dealing with different kinds of interviews telephonic videoconferencing and others in addition the text stresses the importance of researching the organization and salary negotiations finally the book shows the students how to make powerpoint presentations ppts the structure of presentation and using audio visuals this activity based skill oriented learner centred book is designed according to the wbut syllabus on technical report writing and language laboratory practice for the b tech students however it would be equally useful for b tech b e students across the country distinguishing features a practical and student friendly text the stress being on the functional aspects of the language and various activities for acquiring the language gives the methodology of conducting activities such as gds interviews and presentation provides model gd topics and the step by step process of making ppts clearly spells out all the details right from preparing a good job application researching the company including its financial health to preparing the job portfolio to wearing the proper dress handling questions and negotiating salary provides an extensive list of probable questions along with their answers to prepare students for mock interviews also gives well crafted questions at the end of each lesson

ENGLISH LANGUAGE LABORATORIES 2020-12-15

recent developments in soft computation techniques have paved the way for handling huge volumes of data thereby bringing about significant changes and technological advancements this book presents the proceedings of the 3rd international conference on emerging current trends in computing expert technology comet 2020 held at panimalar engineering college chennai india on 6 and 7 march 2020 the aim of the book is to disseminate cutting edge developments taking place in the technological fields of intelligent systems and computer technology thereby assisting researchers and practitioners from both institutions and industry to upgrade their knowledge of the latest developments and emerging areas of study it focuses on technological innovations and trendsetting initiatives to improve business values optimize business processes and enable inclusive growth for corporates industries and education alike the book is divided into two sections next generation soft computing is a platform for scientists researchers practitioners and academics to present and discuss their most recent innovations trends and concerns as well as the practical challenges encountered in the field the second section evolutionary networking and communications focuses on various aspects of 5g communications systems and networking including cloud and virtualization solutions management technologies and vertical application areas it brings together the latest technologies from all over the world and also provides an excellent international forum for the sharing of knowledge and results from theory methodology and applications in networking and communications the book will be of interest to all those working in the fields of intelligent systems and computer technology

Intelligent Systems and Computer Technology 2018-12-12

this book features research papers presented at the international conference on emerging technologies in data mining and information security iemis 2018 held at the university of engineering management kolkata india on february 23 25 2018 it comprises high quality research work by academicians and industrial experts in the field of computing and communication including full length papers research in progress papers and case studies related to all the areas of data mining machine learning internet of things iot and information security

Emerging Technologies in Data Mining and Information Security 2014-05-12

the story revolves around bunch of friends who meet during their engineering days the heart of this story is the biggest puzzle that the author wants to solve about some mysterious activities that he has been observing since the beginning of his engineering days the mystery haunts him and affects him during his entire four

years unknowingly the entire bunch of friends also get dragged into things which they never ever wanted to be a part of the story takes a big turn when the mystery is solved which leaves everyone in a big shock this story is about strength love passion and suspense which unfolds and brings everything to a stand still

The Hidden Folder 2018-10-24

both a handbook for practitioners and a text for use in teaching electronic packaging concepts guidelines and techniques the treatment begins with an overview of the electronics design process and proceeds to examine the levels of electronic packaging and the fundamental issues in the development

Handbook of Electronic Package Design 2024

all packaging engineers and technologists who want to ensure that they give their customers the highest quality most cost effective products should know that the paradigm has shifted it has shifted away from the mil stds and other government standards and test procedures that don't cost effectively address potential failure mechanisms or the manufacturing processes of the product it has shifted decisively towards tackling the root causes of failure and the appropriate implementation of cost effective process controls quality screens and tests this book's groundbreaking science based approach to developing qualification and quality assurance programs helps engineers reach a new level of reliability in today's high performance microelectronics it does this with powerful techniques for identifying and modeling failure mechanisms earlier in the design cycle breaking the need to rely on field data physics of failure product reliability assessment methods that can be proactively implemented throughout the design and manufacture of the product process controls that decrease variabilities in the end product and reduce end of line screening and testing a wide range of microelectronic package and interconnect configurations for both single and multi chip modules is examined including chip and wire bonds tape automated tab flip tab flip chip bonds high density interconnects chip on board designs cob mcm 3 d stack and many more the remaining package elements such as die attachment case and lid leads and lid and lead seals are also discussed in detail the product of a distinguished team of authors and editors this book's guidelines for avoiding potential high risk manufacturing and qualification problems as well as for implementing ongoing quality assurance are sure to prove invaluable to both students and practicing professionals for the professional engineer involved in the design and manufacture of products containing electronic components here is a comprehensive handbook to the theory and methods surrounding the assembly of microelectronic and electronic components the book focuses on computers and consumer electronic products with internal subsystems that reflect mechanical design constraints cost limitations and aesthetic and ergonomic concerns taking a total system approach to packaging the book systematically examines basic chip and computer architecture design and layout interassembly and interconnections cooling scheme materials selection including ceramics glasses and metals stress vibration and acoustics and manufacturing and assembly technology 1994 0 471 53299 1 800 pp integrated circuit hybrid and multichip module package design guidelines a focus on reliability michael pecht this comprehensive guide features a uniquely organized time phased approach to design development qualification manufacture and in service management it provides step by step instructions on how to define realistic system requirements define the system usage environment identify potential failure modes characterize materials and processes by the key control label factors and use experiment step stress and accelerated methods to ensure optimum design before production begins topics covered include detailed design guidelines for substrate wire and wire tape automated and flip chip bonding element attachment and case lead lead and lid seals incorporating dimensional and geometric configurations of package elements manufacturing and assembly conditions materials selection and loading conditions 1993 0 471 59446 6 454 pp

Proceedings of the 2024 3rd International Conference on Structural Seismic Resistance, Monitoring and Detection (SSRMD 2024) 1994-12-13

this book comprises the proceedings of the 2nd international conference on rural technology development and delivery organized by rural technology action group indian institute of technology iit madras the book highlights research on demand driven technologies and innovations mostly on energy environment water resources livelihood and smart technologies for the development of rural india spanning multi disciplinary research aspects on rural technologies and development this book would be useful for rural entrepreneurs researchers students and academic r d institutions for getting them involved in appropriate rural technology and development

Quality Conformance and Qualification of Microelectronic Packages and Interconnects 2022-06-22

polymer nanocomposites fabrication to applications offers readers an up to date interpretation of various polymeric nanocomposite materials and technologies via critical reviews it covers developments and advancements in various nanomaterials polymeric materials biopolymers and processes it initiates from nanomaterial synthesis fabrication and characterization to the manufacturing aspect and feasible product applications of polymer based nanocomposites the prime focus is on polymer matrix nanocomposites and their future trends in the engineering sector features explores synthesis characterization properties fabrication processing and applications of polymer nanocomposite materials elaborates on polymer manufacturing phase challenges using various control methods and statistical tools and modules includes machining and micro μ machining investigation on the polymer nanocomposites discusses modeling simulation and optimization of process parameters during the machining processes and applications of additive manufacturing comprehends the significance of nanomaterials functionalizing synthetic fibrous and biocompatible composites this book is aimed at researchers and graduate students in mechanical engineering materials science polymers composites and nanomaterials

Rural Technology Development and Delivery 2023-09-11

power system small signal stability analysis and control second edition analyzes severe outages due to the sustained growth of small signal oscillations in modern interconnected power systems this fully revised edition addresses the continued expansion of power systems and the rapid upgrade to smart grid technologies that call for the implementation of robust and optimal controls with a new chapter on matlab programs this book describes how the application of power system damping controllers such as power system stabilizers and flexible alternating current transmission system controllers namely static var compensator and thyristor controlled series compensator can guard against system disruptions detailed mathematical derivations illustrated case studies the application of soft computation techniques designs of robust controllers and end of chapter exercises make it a useful resource to researchers practicing engineers and post graduates in electrical engineering considers power system small signal stability and provides various techniques to mitigate it offers a new and straightforward method of finding the optimal location of pss in a multi machine power system includes matlab programs and simulations for practical applications

Polymer Nanocomposites 2016-07

with easily accessible oil reserves dwindling petroleum engineers must have a sound understanding of how to access technically challenging resources especially in the deepwater environment these technically challenging resources bring with them complexities around fluid flow not normally associated with conventional production systems and engineers must be knowledgeable about navigating these complexities practical aspects of flow assurance in the petroleum industry aims to provide practical guidance on all aspects of flow assurance to offer readers a ready reference on how to ensure uninterrupted transport of processed fluids throughout the flow infrastructure by covering all practical aspects of flow assurance being written in such a way that any engineer dealing with the oil and gas industry will be able to understand the material containing solved examples on most topics placing equal emphasis on experimental techniques and modeling methods and devoting an entire chapter to the analysis and interpretation of published case studies with its balance of theory and practical applications this work provides petroleum engineers from a variety of backgrounds with the information needed to maintain and enhance productivity

The Indian National Bibliography 2015-05

this book focuses on soft computing techniques for enhancing voltage security in electrical power networks artificial neural networks anns have been chosen as a soft computing tool since such networks are eminently suitable for the study of voltage security the different architectures of the anns used in this book are selected on the basis of intelligent criteria rather than by a brute force method of trial and error the fundamental aim of this book is to present a comprehensive treatise on power system security and the simulation of power system security the core concepts are substantiated by suitable illustrations and computer methods the book describes analytical aspects of operation and characteristics of power systems from the viewpoint of voltage security the text is self contained and thorough it is intended for senior undergraduate students and postgraduate students in electrical engineering practicing engineers electrical control center ecc operators and researchers will also find the book useful

Indian National Bibliography 2020-02

artificial intelligence machine learning and user interface design is a forward thinking compilation of reviews that explores the intersection of artificial intelligence ai machine learning ml and user interface ui design the book showcases recent advancements emerging trends and the transformative impact of these technologies on digital experiences and technologies the editors have compiled 14 multidisciplinary topics contributed by over 40 experts covering foundational concepts of ai and ml and progressing through intricate discussions on recent algorithms and models case studies and practical applications illuminate theoretical concepts providing readers with actionable insights from neural network architectures to intuitive interface prototypes the book covers the entire spectrum ensuring a holistic understanding of the interplay between these domains use cases of ai and ml highlighted in the book include categorization and management of waste taste perception of tea bird species identification content based image retrieval natural language processing code clone detection knowledge representation tourism recommendation systems and solid waste management advances in artificial intelligence machine learning and user interface design aims to inform a diverse readership including computer science students ai and ml software engineers ui ux designers researchers and tech enthusiasts

Power System Small Signal Stability Analysis and Control 2022-07-07

in today's society researchers are more focused on cleaner materials production for environmental sustainability this approach aims at reducing waste and the development of materials with enhanced properties and functionality this book focuses on optimizing manufacturing processes for sustainable composite materials it discusses optimum utilization of resources by using minimum effort to save cost and energy

Practical Aspects of Flow Assurance in the Petroleum Industry 2015-03-04

the present day power grid is basically a complex power transmission network with risks of failure due to unplanned attacks and contingencies and therefore assessment of vulnerability of transmission network is important and the process is based on contingency approach this book deals with the methods of assessment of the grid network vulnerability and addresses the grid collapse problem due to cascaded failures of the transmission network following an attack or an unplanned contingency basic mitigation aspects for the network has been explored and the immunity of such a power transmission network against vulnerable collapse has been described using mathematical models

Soft Computing Techniques in Voltage Security Analysis 2024-05-10

the aim of the school on rheology of complex fluids is to bring together young researchers and teachers from educational and r d institutions and expose them to the basic concepts and research techniques used in the study of rheological behavior of complex fluids the lectures will be delivered by well recognized experts the book contents will be based on the lecture notes of the school

Artificial Intelligence, Machine Learning and User Interface Design 2024-05-20

the most authentic source of information on higher education in india the handbook of universities deemed universities colleges private universities and prominent educational research institutions provides much needed information on degree and diploma awarding universities and institutions of national importance that impart general technical and professional education in india although another directory of similar nature is available in the market the distinct feature of the present handbook that makes it one of its kind is that it also includes entries and details of the private universities functioning across the country in this handbook the universities have been listed in an alphabetical order this facilitates easy location of their names in addition to the brief history of these universities the present handbook provides the names of their vice chancellor professors and readers as well as their faculties and departments it also acquaints the readers with the various courses of studies offered by each university it is hoped that the handbook in its present form will prove immensely helpful to the aspiring students in choosing the best educational institution for their career enhancement in addition it will also prove very useful for the publishers in mailing their publicity materials even the suppliers of equipment and services required by these educational institutions will find it highly valuable

Green Composites Manufacturing 2021-04-12

this book comprises research studies of novel work on combustion for sustainable energy development it offers an insight into a few viable novel technologies for improved efficient and sustainable utilization of combustion based energy production using both fossil and bio fuels special emphasis is placed on micro scale combustion systems that offer new challenges and opportunities the book is divided into five sections with chapters from 3 4 leading experts forming the core of each section the book should prove useful to a variety of readers including students researchers and professionals

Power Transmission System Analysis Against Faults and Attacks 2010-09-20

this book comprises state of the art advances in energy combustion power propulsion environment focusing on the production and utilization of fossil fuels alternative fuels and biofuels it is written by internationally renowned experts who provide the latest fundamental and applied research innovations on cleaner energy production as well as utilization for a wide range of devices extending from micro scale energy conversion to hypersonic propulsion using hydrocarbon fuels the tailored technical tracks and contributions are portrayed in the respective field to highlight different but complementary views on fuels combustion power and propulsion and air toxins with special focus on current and future r d needs and activities this book will serve as a useful reference for practicing engineers research engineers and managers in industry and research labs academic institutions graduate students and final year undergraduate students in mechanical chemical aerospace energy and environmental engineering

Rheology of Complex Fluids 2006

this book covers the state of the art advances in several areas of energy combustion power propulsion and environment focusing on the use of conventional and alternative fuels it presents novel developments in the areas of biofuels and value added products from various feedstock materials along with thermal management emission control and environmental issues from energy conversion written by internationally renowned experts the chapters in this volume cover the latest fundamental and applied research innovations on cleaner energy utilization for a wide range of devices extending from micro scale energy conversion to hypersonic propulsion using hydrocarbon fuels the book will be useful as a ready reference for managers and practicing and research engineers as well as graduate students and research organizations and institutions

Handbook of Universities 1993

this research book provides state of the art advances in several areas of energy generation from and environmental impact of fuels and biofuels it also presents novel developments in the areas of biofuels and products from various feedstock materials along with thermal management emission control and environmental issues availability of clean and sustainable energy is of paramount importance in all applications of energy power mobility and propulsion this book is written by internationally renowned experts from around the globe they provide the latest innovations in cleaner energy utilization for a wide range of devices the energy and environment sustainability requires a multipronged approach involving development and utilization of new and renewable fuels design of fuel flexible combustion systems and novel and environmentally friendly technologies for improved fuel use this book serves as a good reference for practicing engineers educators and

research professionals

Object-Oriented Simulation Conference (OOS ...) 2014-12-19

this book provides state of the art advances in several areas of importance in energy combustion power propulsion environment using fossil fuels and alternative fuels and biofuels production and utilization availability of clean and sustainable energy is of greater importance now than ever before in all sectors of energy power mobility and propulsion written by internationally renowned experts the latest fundamental and applied research innovations on cleaner energy production as well as utilization for a wide range of devices extending from micro scale energy conversion to hypersonic propulsion using hydrocarbon fuels are provided the tailored technical tracks and contributions from the world renowned technical experts are portrayed in the respective field to highlight different but complementary views on fuels combustion power and propulsion and air toxins with special focus on current and future r d needs and activities the energy and environment sustainability require a multi pronged approach involving development and utilization of new and renewable fuels design of fuel flexible combustion systems that can be easily operated with the new fuels and develop novel and environmentally friendly technologies for improved utilization of all kinds of gas liquid and solid fuels this volume is a useful book for practicing engineers research engineers and managers in industry and research labs academic institutions graduate students and final year undergraduate students in mechanical chemical aerospace energy and environmental engineering

Novel Combustion Concepts for Sustainable Energy Development 2020-09-03

this book integrates knowledge about innovative technologies developed in the past decade with information about commercial scale processes it is written with the objective to help readers to understand the potential of achieving sustainability and high efficiency in wastewater treatment the book presents nine chapters chapter 1 details the types of wastewater its characteristics and the major commercial scale strategies employed to treat wastewater chapter 2 details the different types of physicochemical methods utilized for the remediation of heavy metals dyes and xenobiotics chapters 3 and 4 highlight innovations in the advanced oxidation process and adsorption for remediation of such complex molecules respectively chapters 5 6 and 7 highlight the recent innovations in bioremediation of xenobiotics heavy metals and dyes respectively finally chapters 8 and 9 discuss the latest technologies prevailing bottlenecks and the path ahead towards commercial viability and environmental sustainability in both physico chemical and biological treatment processes

Sustainable Development for Energy, Power, and Propulsion 2019-07-19

recent advances in maintenance and infrastructure management is a collection of papers highlighting the state of the art in maintenance of large structures and management of infrastructures the papers selected in this book are written by international experts from academia and industry and were presented during the past three international conference on maintenance management mm conferences held from 2005 to 2007 and organized by cnim italian national committee for maintenance the selected papers are categorized into four thematic areas 1 reliability and maintenance 2 mathematical modeling and metrics for maintenance 3 maintenance management and organization and 4 facilities management and contracting the papers cover topics ranging from embedded sensors for diagnostics of structures to organizational issues related to effective maintenance planning recent advances in maintenance and infrastructure management provides readers with a snapshot of the latest developments in the tools and techniques used to conduct maintenance of complex infrastructures and systems the book will be of interest to researchers and practitioners in academia and industry involved in planning and deployment of maintenance operations additionally this can serve as a reference text

for advanced courses in operations management and structural health monitoring

Innovations in Sustainable Energy and Cleaner Environment 2018-07-06

this book presents best selected papers presented at the international conference on emerging trends and technologies on intelligent systems ettis 2023 held from 23 24 february 2023 in hybrid mode at c dac noida india the book includes current research works in the areas of artificial intelligence big data cyber physical systems and security in industrial real world settings the book illustrates on going research results projects surveying works and industrial experiences that describe significant advances in all of the related areas

Energy for Propulsion 2021-08-07

this book deals with complex fluid characterization of oil and gas reservoirs emphasizing the importance of pvt parameters for practical application in reservoir simulation and management it covers modeling of pvt parameters qa qc of pvt data from lab studies eos modeling pvt simulation and compositional grading and variation it describes generation of data for reservoir engineering calculations in view of limited and unreliable data and techniques like downhole fluid analysis and photophysics of reservoir fluids it discusses behavior of unconventional reservoirs particularly for difficult resources like shale gas shale oil coalbed methane reservoirs heavy and extra heavy oils

Advances in Energy and Combustion 2022-12-02

this book concerns the developments in the field of e waste management with a particular focus on urban mining sustainability and circular economy aspects it explains e waste recycling technologies supply chain aspects and e waste disposal in it industries including health and environmental effects of e waste recycling processes and associated issues challenges and solutions further it describes the economic potential of resource recovery from e waste features covers recent developments in e waste management explores technological advances such as nanotech from e waste mrew fungal biotech and so forth reviews electronic component recycling aspects discusses the implementation of circular economy in the e waste sector includes urban mining and sustainability aspects of e waste this book is aimed at graduate students and researchers in environmental engineering waste management urban mining circular economy waste processing electronics and telecommunication engineering electrical and electronics engineering and chemical engineering

Recent Trends and Innovations in Sustainable Treatment Technologies for Heavy Metals, Dyes and Other Xenobiotics 2009-03-18

advances in healthcare and protective textiles addresses technologies that have had a major impact in industry for decades but which are currently attracting unprecedented attention due to their applications in the fight against the coronavirus epidemic recent advances in textile technology have opened new possibilities for textile researchers and scientists in antiviral textiles flame retardant textiles antimicrobial textiles insect repellent textiles breathable medical textiles aroma protective textiles high tech textiles smart textiles nano textiles and more this book provides systematic and comprehensive coverage of cutting edge research and

developments on material design methodologies characterizations processes properties and applications of medical healthcare and protective textiles in addition sections pay special attention to advanced fabrication methodologies and materials used in apparel engineering provides a thorough review of recent advances in personal protective equipment ppe design and manufacture in response to the requirements of the fight against coronavirus gives advice on improving sustainability through the use of reusable and recyclable medical textiles explores innovative materials like biopolymers and their applications in medical textiles

Recent Advances in Maintenance and Infrastructure Management 2023-09-19

Proceedings of Third Emerging Trends and Technologies on Intelligent Systems 2018-12-14

Petroleum Fluid Phase Behavior 2023-05-15

Development in E-waste Management 2023-02-09

Advances in Healthcare and Protective Textiles 2004

Annual Commencement

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