

# Power System Engineering By S K Gupta

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[Computational Intelligence for Multimedia Big Data on the Cloud with Engineering Applications](#) - Arun Kumar Sangaiah 2018-08-21

Computational Intelligence for Multimedia Big Data on the Cloud with Engineering Applications covers timely topics, including the neural network (NN), particle swarm optimization (PSO), evolutionary algorithm (GA), fuzzy sets (FS) and rough sets (RS), etc. Furthermore, the book highlights recent research on representative techniques to elaborate how a data-centric system formed a powerful platform for the processing of cloud hosted multimedia big data and how it could be analyzed, processed and characterized by CI. The book also provides a view on how techniques in CI can offer solutions in modeling, relationship pattern recognition, clustering and other problems in bioengineering. It is written for domain experts and developers who want to understand and explore the application of computational intelligence aspects (opportunities and challenges) for design and development of a data-centric system in the context of multimedia cloud, big data era and its related applications, such as smarter healthcare, homeland security, traffic control trading analysis and telecom, etc. Researchers and PhD students exploring the significance of data centric systems in the next paradigm of computing will find this book extremely useful. Presents a brief overview of computational intelligence paradigms and its significant role in application domains Illustrates the state-of-the-art and recent developments in the new theories and applications of CI approaches Familiarizes the reader with computational intelligence concepts and technologies that are successfully used in the implementation of cloud-centric multimedia services in massive data processing Provides new advances in the fields of CI for bio-engineering application

**Chemical Technology and Informatics in Chemistry with Applications** - Alexander V. Vakhrushev 2019-01-15

This volume reflects the huge breadth and diversity in research and the application of industrial and engineering chemistry and cheminformatics. The book presents cutting-edge research developments and new insights that emphasize the vibrancy of industrial and engineering chemistry and cheminformatics today. The first section of the book focuses on new insights in engineering chemistry while the second part looks at the promising future and novel approaches in chemical informatics, which has vast implications for industrial and pharmaceutical applications. Several chapters examine various industrial processes for emerging materials and determine practical use under a wide range of conditions, helping to establish what is needed to produce a new generation of materials.

*Proceedings of the International Symposium on Engineering under Uncertainty: Safety Assessment and Management (ISEUSAM - 2012)* - Subrata Chakraborty 2013-03-12

International Symposium on Engineering under Uncertainty: Safety Assessment and Management (ISEUSAM - 2012) is organized by Bengal Engineering and Science University, India during the first week of January 2012 at Kolkata. The primary aim of ISEUSAM 2012 is to provide a platform to facilitate the discussion for a better understanding and management of uncertainty and risk, encompassing various aspects of safety and reliability of engineering systems. The conference received an overwhelming response from national as well as international scholars, experts and delegates from different parts of the world. Papers received from authors of several countries including Australia, Canada, China, Germany, Italy, UAE, UK and USA, besides India. More than two hundred authors have shown their interest in the symposium. The Proceedings presents ninety two high quality papers which address issues of uncertainty encompassing

various fields of engineering, i.e. uncertainty analysis and modelling, structural reliability, geotechnical engineering, vibration control, earthquake engineering, environmental engineering, stochastic dynamics, transportation system, system identification and damage assessment, and infrastructure engineering.

*Career Education in India* - S. K. Gupta 1994

[Advanced Power System Analysis and Dynamics](#) - L.P. Singh 2006

This Book Is A Result Of Teaching Courses In The Areas Of Computer Methods In Power Systems, Digital Simulation Of Power Systems, Power System Dynamics And Advanced Protective Relaying To The Undergraduate And Graduate Students In Electrical Engineering At I.I.T., Kanpur For A Number Of Years And Guiding Several Ph.D. And M.Tech. Thesis And B.Tech. Projects By The Author. The Contents Of The Book Are Also Tested In Several Industrial And Qip Sponsored Courses Conducted By The Author As A Coordinator. The Present Edition Includes A Sub-Section On Solution Procedure To Include Transmission Losses Using Dynamic Programming In The Chapter On Economic Load Scheduling Of Power System. In This Edition An Additional Chapter On Load Forecasting Has Also Been Included. The Present Book Deals With Almost All The Aspects Of Modern Power System Analysis Such As Network Equations And Its Formulations, Graph Theory, Symmetries Inherent In Power System Components And Its Formulations, Graph Theory, Symmetries Inherent In Power System Components And Development Of Transformation Matrices Based Solely Upon Symmetries, Feasibility Analysis And Modeling Of Multi-Phase Systems, Power System Modeling Including Detailed Analysis Of Synchronous Machines, Induction Machines And Composite Loads, Sparsity Techniques, Economic Operation Of Power Systems Including Derivation Of Transmission Loss Equation From The Fundamental, Solution Of Algebraic And Differential Equations And Power System Studies Such As Load Flow, Fault Analysis And Transient Stability Studies Of A Large Scale Power System Including Modern And Related Topics Such As Advanced Protective Relaying, Digital Protection And Load Forecasting. The Book Contains Solved Examples In These Areas And Also Flow Diagrams Which Will Help On One Hand To Understand The Theory And On The Other Hand, It Will Help The Simulation Of Large Scale Power Systems On The Digital Computer. The Book Will Be Easy To Read And Understand And Will Be Useful To Both Undergraduate And Graduate Students In Electrical Engineering As Well As To The Engineers Working In Electricity Boards And Utilities Etc.

*Sensing of Non-Volatile Memory Demystified* - Swaroop Ghosh 2018-08-10

This book introduces readers to the latest advances in sensing technology for a broad range of non-volatile memories (NVMs). Challenges across the memory technologies are highlighted and their solutions in mature technology are discussed, enabling innovation of sensing technologies for future NVMs. Coverage includes sensing techniques ranging from well-established NVMs such as hard disk, flash, Magnetic RAM (MRAM) to emerging NVMs such as ReRAM, STTRAM, FeRAM and Domain Wall Memory will be covered. *1983 Proceedings of the International Conference on Systems, Man and Cybernetics, December 29, 1983-January 7, 1984, Bombay and New Delhi, India* - IEEE Systems, Man, and Cybernetics Society 1983

**IUTAM Symposium on Exploiting Nonlinear Dynamics for Engineering Systems** - Ivana Kovacic 2019-07-24

This is the proceedings of the IUTAM Symposium on Exploiting Nonlinear Dynamics for Engineering

Systems that was held in Novi Sad, Serbia, from July 15th to 19th, 2018. The appearance of nonlinear phenomena used to be perceived as dangerous, with a general tendency to avoid them or control them. This perception has led to intensive research using various approaches and tailor-made tools developed over decades. However, the Nonlinear Dynamics of today is experiencing a profound shift of paradigm since recent investigations rely on a different strategy which brings good effects of nonlinear phenomena to the forefront. This strategy has a positive impact on different fields in science and engineering, such as vibration isolation, energy harvesting, micro/nano-electro-mechanical systems, etc. Therefore, the ENOLIDES Symposium was devoted to demonstrate the benefits and to unlock the potential of exploiting nonlinear dynamical behaviour in these but also in other emerging fields of science and engineering. This proceedings is useful for researchers in the fields of nonlinear dynamics of mechanical systems and structures, and in Mechanical and Civil Engineering.

*A Course In Power Systems* - J. B. Gupta 2009

**Advances in Smart Grid Automation and Industry 4.0** - M. Jaya Bharata Reddy 2021-04-21

This book comprises select proceedings of the International Conference on Emerging Trends for Smart Grid Automation and Industry 4.0 (ICETSGAI4.0 2019). The contents discuss the recent trends in smart grid technology and related applications. The topics covered include data analytics for smart grid operation and control, integrated power generation technologies, green technologies as well as advances in microgrid operation and planning. The book highlights the enhancement in technology in the field of smart grids, and how IoT, big data, robotics and automation, artificial intelligence, and wide area measurement have become prerequisites for the fourth industrial revolution, also known as Industry 4.0. The book can be a valuable reference for researchers and professionals interested in smart grid automation incorporating features of Industry 4.0.

Control Applications in Modern Power System - Arun Kumar Singh 2020-11-26

This book presents select proceedings of the Electric Power and Renewable Energy Conference 2020 (EPREC 2020). This book provides rigorous discussions, case studies, and recent developments in emerging areas of control systems, especially, load frequency control, wide-area monitoring, control & instrumentation, optimization, intelligent control, energy management system, SCADA systems, etc. The contents of this book will be useful to researchers and professionals interested in control theory and its applications to power grids and systems. The book can also be used by policy makers and power engineers involved in power generation and distribution.

**Smart Energy and Advancement in Power Technologies** - Kumari Namrata 2022-11-08

This book comprises peer-reviewed proceedings of the International Conference on Smart Energy and Advancement in Power Technologies (ICSEAPT-2021). The book includes peer-reviewed papers on renewable energy economics and policy, renewable energy resource assessment, operations management and sustainability, energy audit, global warming, waste and resource management, green energy deployment, green buildings, integration of green energy, energy efficiency, etc. The book serves as a valuable reference resource for academics and researchers across the globe.

*International Conference on Artificial Intelligence: Advances and Applications 2019* - Garima Mathur 2020-02-28

This book introduces research presented at the "International Conference on Artificial Intelligence: Advances and Applications-2019 (ICAIAA 2019)," a two-day conference and workshop bringing together leading academicians, researchers as well as students to share their experiences and findings on all aspects of engineering applications of artificial intelligence. The book covers research in the areas of artificial intelligence, machine learning, and deep learning applications in health care, agriculture, business and security. It also includes research in core concepts of computer networks, intelligent system design and deployment, real-time systems, WSN, sensors and sensor nodes, SDN and NFV. As such it is a valuable resource for students, academics and practitioners in industry working on AI applications.

*10th International Symposium on Process Systems Engineering* - Rita Maria de Brito Alves 2009

The 10th International Symposium on Process Systems Engineering, PSE'09, will be held in Salvador-Bahia, Brazil on August 16-20, 2009. The special focus of PSE 2009 is Sustainability, Energy and Engineering. PSE

2009 is the tenth in the triennial series of international symposia on process systems engineering initiated in 1982. The meeting is brings together the worldwide PSE community of researchers and practitioners who are involved in the creation and application of computing-based methodologies for planning, design, operation, control and maintenance of chemical and petrochemical process industries. PSE'09 will look at how the PSE methods and tools can support sustainable resource systems and emerging technologies in the areas of green engineering: environmentally conscious design of industrial processes. PSE methods and tools support: - sustainable resource systems - emerging technologies in the areas of green engineering - environmentally conscious design of industrial processes

Recent Advances in Power Systems - Om Hari Gupta 2022

This book contains selected proceedings of EPREC-2021 with a focus on power systems. The book includes original research and case studies that present recent developments in power systems, principally renewable energy conversion systems, distributed generations, microgrids, smart grid, HVDC & FACTS, power quality, power system protection, etc. The book will be a valuable reference guide for beginners, researchers, and professionals interested in advancements in power systems.

**International Industrial Engineering Conference & Societies' Manufacturing and Productivity Symposium Proceedings** - 1989

**Elements of Power Systems** - Pradip Kumar Sadhu 2015-09-18

Elements of Power Systems prepares students for engineering degrees, diplomas, Associate Member of the Institution of Engineers (AMIE) examinations, or corresponding examinations in electrical power systems. Complete with case studies, worked examples, and circuit schematic diagrams, this comprehensive text: Provides a solid understanding of the theoretical aspects of power system engineering Instills a practical knowledge of large-scale power system analysis techniques Covers load characteristics, tariffs, power system stability, and more Elements of Power Systems is designed as an undergraduate-level textbook, but the book also makes a handy reference for practicing power engineers.

*International Industrial Engineering Conference Proceedings* - 1989

**Software Engineering** - Sajan Mathew 2007

This book is a comprehensive, step-by-step guide to software engineering. This book provides an introduction to software engineering for students in undergraduate and post graduate programs in computers.

**Nuclear Reactor Technology Development and Utilization** - Salah Ud-Din Khan 2020-06-16

Nuclear Reactor Technology Development and Utilization presents the theory and principles of the most common advanced nuclear reactor systems and provides a context for the value and utilization of nuclear power in a variety of applications both inside and outside a traditional nuclear setting. As countries across the globe realize their plans for a sustainable energy future, the need for innovative nuclear reactor design is increasing, and this book will provide a deep understanding of how these technologies can aid in a region's goal for clean and reliable energy. Dr Khan and Dr Nakhobov, alongside their team of expert contributors, discuss a variety of important topics, including nuclear fuel cycles, plant decommissioning and hybrid energy systems, while considering a variety of diverse uses such as nuclear desalination, hydrogen generation and radioisotope production. Knowledge acquired enables the reader to conduct further research in academia and industry, and apply the latest design, development, integration, safety and economic guidance to their work and research. Combines reactor fundamentals with a contemporary look at evolving trends in the design of advanced reactors and their application to both nuclear and non-nuclear uses Analyses the latest research and uses of hybrid systems which bring together nuclear technology with renewable energy technologies Presents applications, economic factors and an analysis of sustainability factors in one comprehensive resource

*Basic Electrical Engineering* - Dr. Ramana Pilla, Dr. M Surya Kalavathi & Dr. G T Chandra Sekhar

This book is designed based on revised syllabus of JNTU, Hyderabad (AICTE model curriculum) for undergraduate (B.Tech/BE) students of all branches, those who study Basic Electrical Engineering as one of the subject in their curriculum. The primary goal of this book is to establish a firm understanding of the basic

laws of Electric Circuits, Network Theorems, Resonance, Three-phase circuits, Transformers, Electrical Machines and Electrical Installation.

**Advances in Power Systems and Energy Management** - Amik Garg 2017-11-28

This book is a collection of research articles and critical review articles, describing the overall approach to energy management. The book emphasizes the technical issues that drive energy efficiency in context of power systems. This book contains case studies with and without solutions on modelling, simulation and optimization techniques. It covers some innovative topics such as medium voltage (MV) back-to-back (BTB) system, cost optimization of a ring frame unit in textile industry, rectenna for radio frequency (RF) energy harvesting, ecology and energy dimension in infrastructural designs, 2.4 kW three-phase inverter for aircraft application, study of automatic generation control (AGC) in a two area hydrothermal power system, energy-efficient and reliable depth-based routing protocol for underwater wireless sensor network, and power line communication using LabVIEW. This book is primarily targeted at researchers and senior graduate students, but is also highly useful for the industry professional and scientists.

**Applications of Computing, Automation and Wireless Systems in Electrical Engineering** - Sukumar Mishra 2019-05-31

This book discusses key concepts, challenges and potential solutions in connection with established and emerging topics in advanced computing, renewable energy and network communications. Gathering edited papers presented at MARC 2018 on July 19, 2018, it will help researchers pursue and promote advanced research in the fields of electrical engineering, communication, computing and manufacturing.

Intelligent Computing Techniques for Smart Energy Systems - Akhtar Kalam 2019-12-16

The book compiles the research works related to smart solutions concept in context to smart energy systems, maintaining electrical grid discipline and resiliency, computational collective intelligence consisted of interaction between smart devices, smart environments and smart interactions, as well as information technology support for such areas. It includes high-quality papers presented in the International Conference on Intelligent Computing Techniques for Smart Energy Systems organized by Manipal University Jaipur. This book will motivate scholars to work in these areas. The book also prophesies their approach to be used for the business and the humanitarian technology development as research proposal to various government organizations for funding approval.

10th International Symposium on Process Systems Engineering - PSE2009 - Rita Maria de Brito Alves 2009-08-05

This book contains the proceedings of the 10e of a series of international symposia on process systems engineering (PSE) initiated in 1982. The special focus of PSE09 is how PSE methods can support sustainable resource systems and emerging technologies in the areas of green engineering. \* Contains fully searchable CD of all printed contributions \* Focus on sustainable green engineering \* 9 Plenary papers, 21 Keynote lectures by leading experts in the field

1983 Proceedings of the International Conference on Systems, Man and Cybernetics, December 29, 1983-January 7, 1984, Bombay and New Delhi, India - 1983

**Proceeding of International Conference on Intelligent Communication, Control and Devices** -

Rajesh Singh 2016-09-17

The book presents high-quality research papers presented at the first international conference, ICICCD 2016, organised by the Department of Electronics, Instrumentation and Control Engineering of University of Petroleum and Energy Studies, Dehradun on 2nd and 3rd April, 2016. The book is broadly divided into three sections: Intelligent Communication, Intelligent Control and Intelligent Devices. The areas covered under these sections are wireless communication and radio technologies, optical communication, communication hardware evolution, machine-to-machine communication networks, routing techniques, network analytics, network applications and services, satellite and space communications, technologies for e-communication, wireless Ad-Hoc and sensor networks, communications and information security, signal processing for communications, communication software, microwave informatics, robotics and automation, optimization techniques and algorithms, intelligent transport, mechatronics system, guidance and navigation, algorithms, linear/non-linear control, home automation, sensors, smart cities, control systems,

high performance computing, cognition control, adaptive control, distributed control, prediction models, hybrid control system, control applications, power system, manufacturing, agriculture cyber physical system, network control system, genetic control based, wearable devices, nano devices, MEMS, bio-inspired computing, embedded and real-time software, VLSI and embedded systems, FPGA, digital system and logic design, image and video processing, machine vision, medical imaging, and reconfigurable computing systems.

**An Introduction to Thermal Power Plant Engineering and Operation** - P.K Das, A.K Das 2018-11-08

This book is intended to meet the requirements of the fresh engineers on the field to endow them with indispensable information, technical know-how to work in the power plant industries and its associated plants. The book provides a thorough understanding and the operating principles to solve the elementary and the difficult problems faced by the modern young engineers while working in the industries. This book is written on the basis of 'hands-on' experience, sound and in-depth knowledge gained by the authors during their experiences faced while working in this field. The problem generally occurs in the power plants during operation and maintenance. It has been explained in a lucid language.

*Improving Power System Operating Efficiency Through Real-time Control and Tariffs* - Ross Baldick 1990

*Proceedings of the International Conference on Systems, Man and Cybernetics* - 1983

*Optimal Long-Term Operation of Electric Power Systems* - G.S. Christensen 2012-12-06

This book deals with a very important problem in power system planning for countries in which hydrogeneration accounts for the greatest part of the system power production. During the past thirty years many techniques have been developed to cope with the long-term operation of hydro reservoirs. These techniques have been discussed in a number of publications, but they have not until now been documented in book form. This book is intended as the foundation for a special graduate course dealing with aspects of electrical engineering, operational research, water resource research, and applied mathematics. It may also be used for self study by practicing personnel involved in the planning and operation of hydroelectric power systems for utilities, consulting groups, and government regulatory agencies. The book consists of eight chapters. Chapter 1 reviews the historical developments in the field, discusses briefly all techniques used to solve the problem, and summarizes the modeling of hydroplants for long-term operation studies. At the end of the chapter we present in detail an outline of the book.

**Industrial Transformation** - Om Prakash Jena 2022-05-10

This book focuses on industrial development, design, implementation, and transformation using technologies such as Artificial Intelligence, Machine Learning, the Internet of Things (IoT), Big Data Analysis, and Blockchain. It incorporates complex processes, functions, and various other elements as one central component of digital systems. Industrial Transformation: Implementation and Essential Components and Processes of Digital Systems discusses the industry transformation aligned with the computerization of manufacturing and the required skills needed to build a new workforce. This book covers the role that AI plays in the management of resource flow and decision-making in the transformation of operations, as well as supply chain management. It presents sustainability and efficiency with IoT, Machine Learning, Data Analysis, and Blockchain technologies as it focuses on industrial development, design, and implementation. This book showcases the incorporation of complex processes and functions as one central component of digital systems and explores current trends that are working to accelerate industrial transformation. Case studies are also included, depicting the technologies that are influencing the transition into the fourth Industrial Revolution, such as industrial infrastructure, biodiversity, and enhanced productivity. This book is aimed at researchers, scholars, and students that require real-time knowledge and applications where the transformation and implementation of digital systems in the manufacturing sector are needed.

Artificial Intelligence and Evolutionary Computations in Engineering Systems - Subhransu Sekhar Dash 2017-07-11

The volume is a collection of high-quality peer-reviewed research papers presented in the International Conference on Artificial Intelligence and Evolutionary Computation in Engineering Systems (ICAIECES 2016) held at SRM University, Chennai, Tamilnadu, India. This conference is an international forum for

industry professionals and researchers to deliberate and state their research findings, discuss the latest advancements and explore the future directions in the emerging areas of engineering and technology. The book presents original work and novel ideas, information, techniques and applications in the field of communication, computing and power technologies.

Proceedings of International Conference on Computational Intelligence and Emerging Power System - Ramesh C. Bansal 2022

This book gathers outstanding research papers presented in the International Conference on Computational Intelligence and Emerging Power System (ICCIPS 2021), held on March 9-10, 2021, at Engineering College Ajmer. ICCIPS 2021 is jointly organized by the Department of CSE and Department of EE, Engineering College Ajmer, Rajasthan, India. The topics covered in the book are collective intelligence, soft computing, optimization, cloud computing, machine learning, intelligent software, robotics, data science, data security, big data analytics, natural language processing, renewable energy, signal processing, optimization methods for power system, smart grid, micro-grid, energy management, power system, monitoring system, load management, and distributed generation.

**Green Process Engineering** - Martine Poux 2015-06-02

This book has been edited by Martine Poux, Patrick Cognet and Christophe Gourdon from the Laboratoire de Génie Chimique/ENSIACET, Toulouse. It presents an ensemble of methods and new chemical engineering routes that can be integrated in industrial processing for safer, more flexible, economical, and ecological production processes in the context of green and sustainable engineering. Different methods for improving process performance are dealt with, including: • Eco-design and process optimization by systemic approaches • New technologies for intensification • Radical change of industrial processes via the use of new media and new routes for chemical synthesis These various methods are fully illustrated with examples and industrial cases, making this book application oriented.

**Recent Trends in Industrial and Production Engineering** - Akshay Dvivedi 2021-08-06

The book presents the select proceedings of the 3rd International Conference on Computational and Experimental Methods (ICCEMME 2021). It covers the broad topic of industrial and production engineering such as sustainable manufacturing systems, rapid prototyping, manufacturing process optimization, machining, and machine tools, casting, welding, forming, machining, machine tools, computer-aided engineering, manufacturing management, automation and metrology. This book will be useful for the

researchers and professionals working in the in the field of industrial and production engineering.

A Textbook of Automobile Engineering - SK Gupta

A Textbook of Automobile Engineering is a comprehensive treatise which provides clear explanation of vehicle components and basic working principles of systems with simple, unique and easy-to-understand illustrations. The textbook also describes the latest and upcoming technologies and developments in automobiles. This edition has been completely updated covering the complete syllabi of most Indian Universities with the aim to be useful for both the students and faculty members. The textbook will also be a valuable source of information and reference for vocational courses, competitive exams, interviews and working professionals.

*Power System Operation Control and Restructuring* - S. K. Gupta 2015-06-30

Provides a thorough understanding of the fundamentals and applications of modelling, analysing the problem of stability, operation of power systems, and problems associated with restructured power systems. With its coverage and focus, this book will meet the needs of students of power systems engineering courses. It will also serve as a useful reference resource for researchers and practising engineers.

**Energy Research Abstracts** - 1986

Emerging Nanotechnologies for Renewable Energy - Waqar Ahmed 2021-02-16

Emerging Nanotechnologies for Renewable Energy offers a detailed overview of the benefits and applications of nanotechnology in the renewable energy sector. The book highlights recent work carried out on the emerging role of nanotechnology in renewable energy applications, ranging from photovoltaics, to battery technology and energy from waste. Written by international authors from both industry and academia, the book covers topics including scaling up from laboratory to industrial scale. It is a valuable resource for students at postgraduate and advanced undergraduate levels, researchers in industry and academia, technology leaders, and policy and decision-makers in the energy and engineering sectors. Offers insights into a wide range of nanoscale technologies for the generation, storage and transfer of energy Shows how nanotechnology is being used to create new, more environmentally friendly energy solutions Assesses the challenges involved in scaling up nanotechnology-based energy solutions to an industrial scale