

## Shivani Publication Engineering

This book presents the current trends, technologies, and challenges in Big Data in the diversified field of engineering and sciences. It covers the applications of Big Data ranging from conventional fields of mechanical engineering, civil engineering to electronics, electrical, and computer science to areas in pharmaceutical and biological sciences. This book consists of contributions from various authors from all sectors of academia and industries, demonstrating the imperative application of Big Data for the decision-making process in sectors where the volume, variety, and velocity of information keep increasing. The book is a useful reference for graduate students, researchers and scientists interested in exploring the potential of Big Data in the application of engineering areas.

Like family, but not quite. In New Delhi in the 1980s, Aahan Sikand and Rajesh Kumar are childhood playmates. They have been brought up under the care of the same woman, living in the same house, but with starkly different realities - Aahan is the only son and heir of the fabulously wealthy Sikand family, and Rajesh is the son of Mr Sikand's driver. As Aahan and Rajesh grow up, the friendship they shared as children reaches an uncomfortable end, as both become aware of their places in the world. While Aahan is expected to keep what he has inherited intact for the next generation, Rajesh, in the eyes of the world, can, at best, hope for a life better than his father's, free of domestic servitude. But he has much larger plans for himself... Equations is a story of aspiration and social change, of individual ambition and family bonds. It announces the arrival of a striking new author who delves into the secrets of New Delhi politics and business.

### Soft Computing in Data Analytics Proceedings of International Conference on SCDA 2018 Springer

This book shows how to build and maintain a distinctive and credible employer brand and develop a set of relevant success metrics to help measure return on investment (ROI). Starting with the current interest in employer branding, this book looks at the historical roots of brand management and the practical steps to achieve employer brand management success. The book will review the pressures that have generated current interest in employer branding. It goes on to look at the historical roots of brand management and the practical steps necessary to achieve employer brand management success. The book includes the business case, research, positioning, implementation, management and measurement, and case studies of big-named employer brand stories. This book will provide new insights into the field of employer branding and provide directions and tools for organizational brand building. It will be beneficial for research scholars, engineers, practitioners, and management students.

-Padma Shri and late Hindi author Shivani's memoirs of studying at the experimental school set up by Rabindranath Tagore. -A rare view and stories of life inside the Ashram, of how the students' intimate relationships and interactions with Tagore and other towering personalities shaped them. -Includes tributes to other iconic personalities who called Shantiniketan their home, such as Satyajit Ray and Pandit Hajari Prasad Dwivedi. -Written with such warmth and filled with laughter, this book can be enjoyed by both adults and children. -Translated into English for the first time by Ira Pande, the author's daughter and Sahitya Akademi winner for her translation of Manohar Shyam Joshi's T'ta Professor This charming memoir is a loving homage to a grand institution and its legendary gurus. Written from the perspective of a child

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and young girl, it retains the freshness and innocence of an age when experimental education was not merely a trendy movement. Shivani's vivid pictures of the Ashram and portraits of her teachers and fellow students remain as alive as they seemed when she first wrote this memoir nearly fifty years ago. Along with the moving tributes she wrote when some of her beloved contemporaries passed away, this slim memoir is a sort of diptych that captures the spirit of the Ashram and the liveliness of its inmates, many of whom went on to become iconic Indians. Shivani's recall of her time there takes the reader into an enchanted garden that remains as inspirational to her as it was when she went there all the way from Kumaon a lifetime ago.

Computational Intelligence Techniques and Their Applications to Software Engineering Problems focuses on computational intelligence approaches as applicable in varied areas of software engineering such as software requirement prioritization, cost estimation, reliability assessment, defect prediction, maintainability and quality prediction, size estimation, vulnerability prediction, test case selection and prioritization, and much more. The concepts of expert systems, case-based reasoning, fuzzy logic, genetic algorithms, swarm computing, and rough sets are introduced with their applications in software engineering. The field of knowledge discovery is explored using neural networks and data mining techniques by determining the underlying and hidden patterns in software data sets. Aimed at graduate students and researchers in computer science engineering, software engineering, information technology, this book: Covers various aspects of in-depth solutions of software engineering problems using computational intelligence techniques Discusses the latest evolutionary approaches to preliminary theory of different solve optimization problems under software engineering domain Covers heuristic as well as meta-heuristic algorithms designed to provide

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better and optimized solutions Illustrates applications including software requirement prioritization, software cost estimation, reliability assessment, software defect prediction, and more Highlights swarm intelligence-based optimization solutions for software testing and reliability problems

The book is revised specifically to address the needs of the latest course curriculum in Engineering Chemistry for the first semester students of all branches of engineering. The topics covered in the book are customarily taught in several universities and institutes. The book exposes students to fundamental knowledge in Water technology • Applications of surface chemistry and concept of nuclear energy and energy storage devices • Alloys and phase rule • Electrochemistry and principle involved in corrosion and its inhibition and protective coatings • Analysis of fuels and combustion KEY FEATURES • Several worked-out examples to help students reinforce their comprehension of theory • Numerous short and descriptive questions at the end of each chapter to test and foster students' conceptual understanding of the subject • Chapter-end problems to help students become proficient in problem solving TARGET AUDIENCE Students of first-year BE/BTech (All Branches)

As the global population continues to increase, it has become necessary to find ways to handle this increase through various policy tools that address population growth and urbanization problems. The urbanization process has both potential issues and opportunities that need to be exploited to move societies forward. Megacities and Rapid Urbanization: Breakthroughs in Research and Practice examines trends, challenges, issues, and strategies related to population growth and rapid urbanization and its impact on urban environments. The book also explores the use of different governance approaches in addressing challenges and different

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tools and systems of appropriate allocation to address issues. This publication is an ideal reference source for academicians, students, practitioners, professionals, managers, urban planners, and government officials.

Web Semantics strengthen the description of web resources to exploit them better and make them more meaningful for both humans and machines, thereby contributing to the development of a knowledgeintensive data web. The world is experiencing the movement of concept from data to knowledge and the movement of web from document model to data model. The underlying idea is making the data machine understandable and processable. In the light of these trends, conciliation of Semantic and the Web is of paramount importance for further progress in the area. Web Semantics: Cutting Edge and Future Directions in Healthcare describes the three major components of the study of Semantic Web, namely Representation, Reasoning, and Security with a special focus on the healthcare domain. This book summarizes the trends and current research advances in web semantics, emphasizing the existing tools and techniques, methodologies, and research solutions. It provides easily comprehensible information on Web Semantics including semantics for data and semantics for services. Presents a comprehensive examination of the emerging research in areas of the semantic web, including ontological engineering, semantic annotation, reasoning and intelligent processing, semantic search paradigms, semantic web mining, and semantic sentiment analysis Helps readers understand key concepts in semantic web applications for biomedical engineering and healthcare, including mapping disparate knowledge bases, security issues, multilingual semantic web, and integrating databases with knowledge bases Includes coverage of key application areas of the semantic web, including clinical decision-making, biodiversity

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science, interactive healthcare, intelligent agent systems, decision support systems, and clinical natural language processing

The second edition of a bestseller, this definitive text covers all aspects of testing and maintenance of the equipment found in electrical power systems serving industrial, commercial, utility substations, and generating plants. It addresses practical aspects of routing testing and maintenance and presents both the methodologies and engineering basics needed to carry out these tasks. It is an essential reference for engineers and technicians responsible for the operation, maintenance, and testing of power system equipment. Comprehensive coverage includes dielectric theory, dissolved gas analysis, cable fault locating, ground resistance measurements, and power factor, dissipation factor, DC, breaker, and relay testing methods.

This book is an ensemble of poems, all written randomly at random hours in random moods, posed by random situations. There is no pattern to any of it, that's the whole point – Life as it came, raw and fresh, put out in front of the world. If anything, they are all one in the way they have been penned down-in the moment, in deep honesty. This is a journal through life by means of poetry. Every poem has a lesson that inspired it and a memory that lives with it. 'A Poem that did not rhyme' is author's confession to the world, a proclamation of herself being that living, breathing poem that would rather be raw, unbound in rhymes and patterns than be chained to the rut.

"This book explores the phenomena of the emergence of the use of artificial intelligence and other emerging technologies in teaching and learning in higher education. Recent technological advancements and the increasing speed of adopting new technologies in higher

education are explored in order to predict the future nature of higher education in a world where artificial intelligence is part of the fabric of our universities"--

We can each radiate unconditional love. We don't even need to create it – we are love. But the flow of love is blocked in moments of hurt, blame, anger, criticism, competition or insecurity. These emotions have dominated our emotional space, and hardly enable us to feel our own love. So today, we rely on someone else to love us. This book teaches us to think right, enable self-love, feel it and extend it to other people. The central message here is that love is not 'out there', but within us. A spectrum of emotions like attachment, expectations, hurt, worry, stress, fear or anger, which we use in the pretext of love, are analysed. The conversations also explore the fact that the parent-child relationship is not challenging – It does not need to be. As you free yourself from judgments and expectations, as you start thinking right for people, and as you accept people for who they are, you become a Radiator of unconditional love. You are one decision away from vibrating at a frequency of love ... by not needing love or giving love – but just by being love.

This multi-contributed handbook focuses on the latest workings of IoT (internet of Things) and Big Data. As the resources are limited, it's the endeavor of the authors to support and bring the information into one resource. The book is divided into 4 sections that covers IoT and technologies, the future of Big Data, algorithms, and case studies showing IoT and Big Data in various fields such as health care, manufacturing and automation. Features Focuses on the latest workings of IoT and Big Data Discusses the emerging role of technologies and the fast-growing market of Big Data Covers the movement toward automation with hardware, software, and sensors, and trying to save on energy resources Offers the latest technology on IoT

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Presents the future horizons on Big Data

The objective of this book is to provide the fundamental comprehension of a broad range of topics in an integrated volume such that readership hailing from diverse disciplines can rapidly acquire the necessary background for applying it in pertinent research and development field.

Salient Features: Provided simple step by step explanations to motivate self study of the subject. Free hand sketching techniques are provided. Worksheets for free hand practice are provided. A new chapter on Computer Aided Design and Drawing (CADD) is added.

The book presents a collection of peer-reviewed articles from the International Conference on Advances and Applications of Artificial Intelligence and Machine Learning - ICAAAIML 2020. The book covers research in the areas of artificial intelligence, machine learning, and deep learning applications in healthcare, agriculture, business and security. This volume contains research papers from academicians, researchers as well as students. There are also papers on core concepts of computer networks, intelligent system design and deployment, real-time systems, wireless sensor network, sensors and sensor nodes, software engineering, and image processing. This book will be a valuable resource for students, academics and practitioners in industry working on AI applications. The nutritional and medicinal value of metals, such as zinc, calcium, and iron, has been known in traditional medicine for a long time. Other metals, such as silver and gold, may also have therapeutic and health benefits. Ancient



medicines have long incorporated their use in the treatment of diseases, and they have also more recently been explored for treatment in allopathic medicine, birthing the concept of metallonutraceuticals. The challenge of using metals in the human body is to find forms that are safe and effective. Handbook of Metallonutraceuticals presents basic concepts related to the nutritional and therapeutic use of metals, product development strategies, and some ideas ready to be applied for condition-specific metallonutraceuticals. The book begins with an overview of the nutraceuticals field and the need for metallonutraceuticals. It considers the roles of various metals in metabolism, reviews the ethnopharmacology and ethnomedicine of metals, and covers the characterization and possible properties of metallonutraceuticals. It also examines bioavailability and drug interactions, and therapeutic applications of nanometals including use as imaging agents, in cancer diagnosis and treatment, as antibacterials and antivirals, in ocular disease, and in neurodegenerative diseases. The book explores the use of metals in traditional Chinese medicine, potential applications for metalloenzymes, the use of nanosilver in nutraceuticals, and the potential of gold nanoparticles as a drug delivery system. In addition, it addresses intellectual property rights and regulatory considerations regarding metallonutraceuticals. Using an interdisciplinary approach, this user-friendly text

provides a knowledge base and inspiration for new research in this exciting field. This practical resource introduces electrical and electronic principles and technology covering theory through detailed examples, enabling students to develop a sound understanding of the knowledge required by technicians in fields such as electrical engineering, electronics and telecommunications. No previous background in engineering is assumed, making this an ideal text for vocational courses at Levels 2 and 3, foundation degrees and introductory courses for undergraduates.

Students today enter engineering courses with a wide range of mathematical skills, due to the many different pre-university qualifications studied. Bill Cox's aim is for students to gain a thorough understanding of the maths they are studying, by first strengthening their background in the essentials of each topic. His approach allows a unique self-paced study style, in which students Review their strengths and weaknesses through self-administered diagnostic tests, then focus on Revision where they need it, to finally Reinforce the skills required. Understanding Engineering Mathematics is structured around a highly successful 'transition' maths course at Aston University which has demonstrated a clear improvement in students' achievement in mathematics, and has been commended by QAA Subject Review and engineering accreditation reports. A

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core undergraduate text with a unique interactive style that enables students to diagnose their strengths and weaknesses and focus their efforts where needed. Ideal for self-paced self-study and tutorial work, building from an initially supportive approach to the development of independent learning skills. Lots of targeted examples and exercises.

**Market\_Desc:** For the undergraduate students of civil engineering at major Indian universities and engineering colleges. The text is also useful to the experts and professionals in the field of irrigation and agriculture. **Special Features:** · Presents neatly-drawn drawings of dams, spillways, canals and cross-drainage works, not provided with any other book.· Explains all aspects of soil moisture, irrigation systems, tanks, dams and canal river systems, water rights and environmental aspects.· Discusses live case studies of major dams (the Tehri Dam, the Almatti Dam) for easy understanding of some important concepts.· Explains all topics with solved examples and neatly-drawn sketches.· Uses the SI units throughout the book.· Supplies chapter-end problems and objective questions for self assessments. **About The Book:** Irrigation Engineering is designed for the undergraduate students of civil engineering at major Indian universities and engineering colleges. The text is also useful to the experts and professionals in the field of irrigation and agriculture. The content is divided into two parts: Part A

and Part B. Part A contain 21 chapters. In this part, the author has discussed various irrigation systems usually adopted in different agro-climatic regions in India. With neatly-drawn sketches, the design of irrigation structures for storage, diversion, distribution and control are illustrated with exam-oriented worked-out examples. Part B of the book comprises 27 irrigation/hydraulic structures (called plates), presenting sketches with usual three-views to scale of dams, spillways, canals and cross-drainage works. These sketches are furnished with all details and dimensions (workable drawings) with lucid and complete designs.

An introduction to the engineering principles of embedded systems, with a focus on modeling, design, and analysis of cyber-physical systems. The most visible use of computers and software is processing information for human consumption. The vast majority of computers in use, however, are much less visible. They run the engine, brakes, seatbelts, airbag, and audio system in your car. They digitally encode your voice and construct a radio signal to send it from your cell phone to a base station. They command robots on a factory floor, power generation in a power plant, processes in a chemical plant, and traffic lights in a city. These less visible computers are called embedded systems, and the software they run is called embedded software. The principal challenges in designing and analyzing embedded systems stem from their interaction with physical processes. This

book takes a cyber-physical approach to embedded systems, introducing the engineering concepts underlying embedded systems as a technology and as a subject of study. The focus is on modeling, design, and analysis of cyber-physical systems, which integrate computation, networking, and physical processes. The second edition offers two new chapters, several new exercises, and other improvements. The book can be used as a textbook at the advanced undergraduate or introductory graduate level and as a professional reference for practicing engineers and computer scientists. Readers should have some familiarity with machine structures, computer programming, basic discrete mathematics and algorithms, and signals and systems.

This book features selected high-quality papers from the International Conference on Innovation in Electrical Power Engineering, Communication, and Computing Technology (IEPCCT 2019), held at Siksha 'O' Anusandhan (Deemed to be University), Bhubaneswar, India, on 13–14 December 2019. Presenting innovations in power, communication, and computing, it covers topics such as mini, micro, smart and future power grids; power system economics; energy storage systems; intelligent control; power converters; improving power quality; signal processing; sensors and actuators; image/video processing; high-performance data mining algorithms; advances in deep learning; and optimization

methods.

### Author Impact

This reference manual provides a list of approximately 300 technical terms and phrases common to environmental and civil engineering which non-English speakers often find difficult to understand in English. The manual provides the terms and phrases in alphabetical order, followed by a concise English definition, then a translation of the term in Tamil and, finally, an interpretation or translation of the term or phrase in Tamil. Following the Tamil translations section, the columns are reversed and reordered alphabetically in Tamil with the English term and translation following the Tamil term or phrase.

The volume contains original research findings, exchange of ideas and dissemination of innovative, practical development experiences in different fields of soft and advance computing. It provides insights into the International Conference on Soft Computing in Data Analytics (SCDA). It also concentrates on both theory and practices from around the world in all the areas of related disciplines of soft computing. The book provides rapid dissemination of important results in soft computing technologies, a fusion of research in fuzzy logic, evolutionary computations, neural science and neural network systems and chaos theory and chaotic systems, swarm based algorithms, etc. The book aims to cater the postgraduate students and researchers working in the discipline of computer science and engineering along with other engineering branches.

This book discusses the evolution of security and privacy issues in the Internet of Things (IoT). The book focuses on assembling all security- and privacy-related technologies into a single

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source so that students, researchers, academics, and those in the industry can easily understand the IoT security and privacy issues. This edited book discusses the use of security engineering and privacy-by-design principles to design a secure IoT ecosystem and to implement cyber-security solutions. This book takes the readers on a journey that begins with understanding security issues in IoT-enabled technologies and how these can be applied in various sectors. It walks readers through engaging with security challenges and building a safe infrastructure for IoT devices. The book helps researchers and practitioners understand the security architecture of IoT and the state-of-the-art in IoT countermeasures. It also differentiates security threats in IoT-enabled infrastructure from traditional ad hoc or infrastructural networks, and provides a comprehensive discussion on the security challenges and solutions in RFID and WSNs in IoT. This book aims to highlight the concepts of related technologies and novel findings by researchers through its chapter organization. The primary audience comprises specialists, researchers, graduate students, designers, experts, and engineers undertaking research on security-related issues.

Safety in Petroleum Industries covers pertinent safety aspects and precautions to be taken for design, operation, maintenance, inspection and project constructions for petroleum industries, with an emphasis on petroleum refineries. Relevant practical knowledge and experience contributing to safe and sustained operation of the industry has been compiled with all necessary references. Identified areas where theoretical inputs are required have also been incorporated. Learning objectives for the petroleum industries have been identified and discussed in an organized manner based on author's more than thirty-five years of experience in petroleum and chemical industries. Aimed at practicing engineers in upstream and

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downstream petroleum industries, this book: Covers safety tips for operation of petroleum industries Documents design codes, tools and practices including safe operating practices of different equipment and safety procedures in a single source Includes detailed safety procedures like HAZOP, Safety Audit, management safety review, and process safety management Contains dedicated chapters on Fire Fighting, and Industrial Hygiene and Ergonomics Discusses first-hand experienced examples and burning issues in the petroleum industry

This book provides comprehensive information of the nanotechnology-based pharmaceutical product development including a diverse range of arenas such as liposomes, nanoparticles, fullerenes, hydrogels, thermally responsive externally activated theranostics (TREAT), hydrogels, microspheres, micro- and nanoemulsions and carbon nanomaterials. It covers the micro- and nanotechnological aspects for pharmaceutical product development with the product development point of view and also covers the industrial aspects, novel technologies, stability studies, validation, safety and toxicity profiles, regulatory perspectives, scale-up technologies and fundamental concept in the development of products. Salient Features: Covers micro- and nanotechnology approaches with current trends with safety and efficacy in product development. Presents an overview of the recent progress of stability testing, reverse engineering, validation and regulatory perspectives as per regulatory requirements. Provides a comprehensive overview of the latest research related to micro- and nanotechnologies including designing, optimisation, validation and scale-up of micro- and nanotechnologies. Is edited by two well-known researchers by contribution of vivid chapters from renowned scientists across the globe in the field of pharmaceutical sciences. Dr. Neelesh Kumar Mehra



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is working as an Assistant Professor of Pharmaceutics & Biopharmaceutics at the Department of Pharmaceutics, National Institute of Pharmaceutical Education & Research (NIPER), Hyderabad, India. He received 'TEAM AWARD' for successful commercialisation of an ophthalmic suspension product. He has authored more than 60 peer-reviewed publications in highly reputed international journals and more than 10 book chapter contributions. He has filed patents on manufacturing process and composition to improved therapeutic efficacy for topical delivery. He guided PhD and MS students for their dissertations/research projects. He has received numerous outstanding awards including Young Scientist Award and Team Award for his research output. He recently published one edited book, 'Dendrimers in Nanomedicine: Concept, Theory and Regulatory Perspectives', in CRC Press. Currently, he is editing books on nano drug delivery-based products with Elsevier Pvt Ltd. He has rich research and teaching experience in the formulation and development of complex, innovative ophthalmic and injectable biopharmaceutical products including micro- and nanotechnologies for regulated market. Dr. Arvind Gulbake is working as an Assistant Professor at the Faculty of Pharmacy, School of Pharmaceutical & Population Health Informatics, at DIT University, Dehradun, India. He has authored more than 40 peer-reviewed publications in highly reputed international journals, four book chapters and a patent contribution. He has received outstanding awards including Young Scientist Award and BRG Travel Award for his research. He is an assistant editor for IJAP. He guided PhD and MS students for their dissertations/research projects. He has successfully completed extramural project funded by SERB, New Delhi, Government of India. He has more than 12 years of research and teaching experience in the formulation and development of nanopharmaceuticals.

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This book focuses on image based security techniques, namely visual cryptography, watermarking, and steganography. This book is divided into four sections. The first section explores basic to advanced concepts of visual cryptography. The second section of the book covers digital image watermarking including watermarking algorithms, frameworks for modeling watermarking systems, and the evaluation of watermarking techniques. The next section analyzes steganography and steganalysis, including the notion, terminology and building blocks of steganographic communication. The final section of the book describes the concept of hybrid approaches which includes all image-based security techniques. One can also explore various advanced research domains related to the multimedia security field in the final section. The book includes many examples and applications, as well as implementation using MATLAB, wherever required. Features: Provides a comprehensive introduction to visual cryptography, digital watermarking and steganography in one book Includes real-life examples and applications throughout Covers theoretical and practical concepts related to security of other multimedia objects using image based security techniques Presents the implementation of all important concepts in MATLAB

The capability to generate potable water from polluted sources is growing in importance as pharmaceuticals, microplastics and waste permeate our soil. Nanotechnology allows for improvements in water remediation technologies by taking advantage of the unique properties of materials at this small scale.

Civil Engineering Materials: Introduction and Laboratory Testing discusses the properties, characterization procedures, and analysis techniques of primary civil engineering materials. It presents the latest design considerations and uses of engineering materials as well as theories

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for fully understanding them through numerous worked mathematical examples. The book also includes important laboratory tests which are clearly described in a step-by-step manner and further illustrated by high-quality figures. Also, analysis equations and their applications are presented with appropriate examples and relevant practice problems, including Fundamentals of Engineering (FE) styled questions as well those found on the American Concrete Institute (ACI) Concrete Field Testing Technician - Grade I certification exam. Features: Includes numerous worked examples to illustrate the theories presented Presents Fundamentals of Engineering (FE) examination sample questions in each chapter Reviews the ACI Concrete Field Testing Technician - Grade I certification exam Utilizes the latest laboratory testing standards and practices Includes additional resources for instructors teaching related courses This book is intended for students in civil engineering, construction engineering, civil engineering technology, construction management engineering technology, and construction management programs.

'Programming .NET Components', second edition, updated to cover .NET 2.0., introduces the Microsoft .NET Framework for building components on Windows platforms. From its many lessons, tips, and guidelines, readers will learn how to use the .NET Framework to program reusable, maintainable, and robust components.

This comprehensive textbook introduces electrical engineers to the most relevant concepts and techniques in electric power systems engineering today. With an emphasis on practical motivations for choosing the best design and analysis approaches, the author carefully integrates theory and application. Key features include more than 500 illustrations and diagrams, clearly developed procedures and application examples, important mathematical

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details, coverage of both alternating and directcurrent, an additional set of solved problems at the end of eachchapter, and an historical overview of the development of electricpower systems. This book will be useful to both power engineeringstudents and professional power engineers.

Cognitive Computing for Human-Robot Interaction: Principles and Practices explores the efforts that should ultimately enable society to take advantage of the often-heralded potential of robots to provide economical and sustainable computing applications. This book discusses each of these applications, presents working implementations, and combines coherent and original deliberative architecture for human–robot interactions (HRI). Supported by experimental results, it shows how explicit knowledge management promises to be instrumental in building richer and more natural HRI, by pushing for pervasive, human-level semantics within the robot's deliberative system for sustainable computing applications. This book will be of special interest to academics, postgraduate students, and researchers working in the area of artificial intelligence and machine learning. Key features: Introduces several new contributions to the representation and management of humans in autonomous robotic systems; Explores the potential of cognitive computing, robots, and HRI to generate a deeper understanding and to provide a better contribution from robots to society; Engages with the potential repercussions of cognitive computing and HRI in the real world. Introduces several new contributions to the representation and management of humans in an autonomous robotic system Explores cognitive computing, robots and HRI, presenting a more in-depth understanding to make robots better for society Gives a challenging approach to those several repercussions of cognitive computing and HRI in the actual global scenario

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The functionalization of nanomaterials provides them with some unique properties, making the same nanomaterial amenable for various applications by simply manipulating functional components. However, functionalized nanomaterials also face some challenges, along with some encouraging new applications in the future. This book provides a detailed account of applications of the functionalization of nanomaterials. This book can serve as a reference book for scientific investigators, including doctoral and post-doctoral scholars and undergraduate and graduate students, in context with the scope of applications of functionalized nanomaterials. It also highlights recent advances, challenges, and opportunities in the application of nanomaterials. This book will provide critical and comparative data for nanotechnologists. It may also be beneficial for multidisciplinary researchers, industry personnel, journalists, policy makers, and the common public to understand the scope of functionalized nanomaterials in detail and in depth. Features: This book covers various applications of functionalized nanomaterials. It discusses recent global research trends and future applications of functionalized nanomaterials. It highlights the need for more rigorous regulatory frameworks for the safe use of functionalized nanomaterials. It contains contributions from international experts and will be a valuable resource for researchers.

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