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# Shivani Publication Engineering

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solve optimization problems under software engineering domain Covers heuristic as well as meta-heuristic algorithms designed to provide 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 *Materials Science and Engineering: Concepts, Methodologies, Tools, and Applications* Springer Nature 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 downstream petroleum industries, this book: Covers

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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 Safety in Petroleum Industries Soft Computing in Data Analytics Proceeding s of International Conference on

SCDA 2018 Effective from 2008-09 session, U.P.T.U. has introduced the subject of manufacturing processes for first year engineering students of all streams. This textbook covers the entire course material in a distilled form.  
Governance CRC Press  
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

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reference for graduate students, researchers and scientists interested in exploring the potential of Big Data in the application of engineering areas. Game Theory with Engineering Applications Walter de Gruyter GmbH & Co KG In these enlightening and eye-opening conversations, the renowned spiritual mentor, Sister BK Shivani reveals how to create a life of joy,

contentment and bliss, because we all have the choice and the power to do so. According to her, the reason why there is so little happiness in the world is dependency. Happiness is not dependent on ' anything ' or ' anyone ' , found ' anywhere ' . We keep delaying our happiness until things are just right in our life. We think we will be happy in the future and then wonder why we are not

happy now. Happiness is only possible when we are able to accept everyone as they are, at every moment, in every situation. This book is a medium for the awakening and acceptance of self-responsibility. Helping us choose our thoughts and feelings aligned with our true nature of purity, peace and love. To make us shift from asking to sharing; from holding on to

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letting go; from expectations to acceptance; from the past and the future to being in the now. Happiness is a 'decision', not a 'consequence',

Handbook of IoT and Big Data New Age International Author Impact Cognitive Computing for Human-Robot Interaction CRC Press

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,

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practitioners, and management students. Handbook of Research on Innovative Management Using AI in Industry 5.0 IGI Global  
Currently the field of nanocatalysis is undergoing many exciting developments and the design of silica-based organic-inorganic hybrid nanocatalysts is a key focus of the researchers working in this field. This book aims to

present a succinct overview of the recent research progress directed towards the fabrication of silica-based organic-inorganic hybrid catalytic systems encompassing the key advantages of silica nanoparticles and silica-coated magnetic nanoparticles in an integrated manner. Featuring comprehensive descriptions of almost all approaches

utilized for the synthesis of nanomaterials including some latest techniques such as flow and microwave-assisted synthesis that enable large-scale synthesis, it proves useful not only to academics but also industrialists. It also includes a systematic discussion on the vital characterization techniques employed for authenticating the structure of these. The title

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also offers an enormous amount of knowledge about the fusion of nanotechnology with green chemistry that strives to meet the scientific challenges of protecting human health and the environment. Understanding Engineering Mathematics SIAM In order to meet food needs, farmers need to integrate the latest technologies enabling them

to make more informed decisions. Smart Farming Technologies for Sustainable Agricultural Development provides innovative insights into the latest farming advancements in terms of informatics and communication. The content within this publication represents the work of topics such as sensor systems, wireless communication, and the integration of

the Internet of Things in agriculture-related processes. It is a vital reference source for farmers, academicians, researchers, government agencies, technology developers, and graduate-level students seeking current research on smart farming technologies. Civil Engineering Materials Elsevier The design and study of materials is a pivotal component to new discoveries



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in the various fields of science and technology. By better understanding the components and structures of materials, researchers can increase its applications across different industries. Materials Science and Engineering: Concepts, Methodologies, Tools, and Applications is a compendium of the latest academic material on investigations, technologies, and techniques pertaining to analyzing the synthesis and design of new materials. Through its broad and extensive coverage on a

variety of crucial topics, such as nanomaterials, biomaterials, and relevant computational methods, this multi-volume work is an essential reference source for engineers, academics, researchers, students, professionals, and practitioners seeking innovative perspectives in the field of materials science and engineering. Emerging Research in Data Engineering Systems and Computer Communications Manjul Publishing 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,

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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. Engineering Thermodynamics CRC Press Analog circuit and system design today is more essential than ever before. With the growth of digital systems,

wireless communications, complex industrial and automotive systems, designers are challenged to develop sophisticated analog solutions. This comprehensive source book of circuit design solutions will aid systems designers with elegant and practical design techniques that focus on common circuit design challenges. The book 's in-depth application examples

provide insight into circuit design and application solutions that you can apply in today ' s demanding designs. Covers the fundamentals of linear/analog circuit and system design to guide engineers with their design challenges Based on the Application Notes of Linear Technology, the foremost designer of high performance analog products,

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readers will gain practical insights into design techniques and practice Broad range of topics, including power management tutorials, switching regulator design, linear regulator design, data conversion, signal conditioning, and high frequency/RF design Contributors include the leading lights in analog design, Robert Dobkin, Jim Williams and Carl

Nelson, among others IGI Global This book primarily focuses on the design of analog and digital communication systems; and has been structured to cater to the second year engineering undergraduate students of Computer Science, Information Technology, Electrical Engineering and Electronics and Communication departments. For better understanding, the basics of analog communication systems are outlined before the digital

communication systems section. The content of this book is also suitable for the students with little knowledge in communication systems. The book is divided into five modules for efficient presentation, and it provides numerous examples and illustrations for the detailed understanding of the subject, in a thorough manner. Technical topics discussed in the book include: Analog modulation techniques-AM, FM and PM Digital modulation techniques-ASK, PSK, FSK, QPSK, MSK and M-ary modulation Pulse modulation

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techniques and  
Data communication  
Source coding techniques-  
Shannon Fano and  
Huffman coding;  
channel coding  
techniques-Linear  
block codes and  
convolutional  
codesAdvanced  
communication  
techniques topics  
includes-Cellular  
communication,  
Satellite  
communication  
and multiple  
access schemes.  
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Awakening with  
Brahma Kumaris  
Springer  
This book  
gathers selected  
papers presented  
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International

Conference on  
Computing,  
Communications  
and Data  
Engineering, held  
at Sri Padmavati  
Mahila  
Visvavidyalayam,  
Tirupati, India  
from 1 to 2 Feb  
2019. Chiefly  
discussing major  
issues and  
challenges in data  
engineering  
systems and  
computer  
communications,  
the topics covered  
include wireless  
systems and IoT,  
machine learning,  
optimization,  
control, statistics,  
and social  
computing.  
Happiness  
Unlimited IGI  
Global  
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

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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 Presents the future horizons on Big

Data Happiness Unlimited CRC Press Studying engineering, whether it is mechanical, electrical or civil relies heavily on an understanding of mathematics. This new textbook clearly demonstrates the relevance of mathematical principles and shows how to apply them to solve real-life engineering problems. It deliberately starts at an elementary level so that students who are starting from a low knowledge base will be able to quickly get up to

the level required. Students who have not studied mathematics for some time will find this an excellent refresher. Each chapter starts with the basics before gently increasing in complexity. A full outline of essential definitions, formulae, laws and procedures are introduced before real world situations, practicals and problem solving demonstrate how the theory is applied. Focusing on learning through practice, it contains examples, supported by 1,600 worked problems and

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3,000 further problems contained within exercises throughout the text. In addition, 34 revision tests are included at regular intervals. An interactive companion website is also provided containing 2,750 further problems with worked solutions and instructor materials

Emerging Carbon-Based Nanocomposites for Environmental Applications  
Laxmi Publications  
Soft Computing in Data Analytics  
Proceedings of International

Conference on SCDA  
2018 Springer Handbook of Research on Diverse Applications of Nanotechnology in Biomedicine, Chemistry, and Engineering  
CRC Press

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.

Silica-based Organic-inorganic Hybrid Nanomaterials: Synthesis, Functionalization And Applications In The Field Of Catalysis  
IGI Global

Engineering systems are highly distributed collective systems that have humans in the loop.

Engineering systems emphasize the potential of control and games beyond

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traditional applications. Game theory can be used to design incentives to obtain socially desirable behaviors on the part of the players, for example, a change in the consumption patterns on the part of the ?prosumers? (producers-consumers) or better redistribution of traffic. This unique book addresses the foundations of game theory, with an emphasis on the physical intuition behind the

concepts, an analysis of design techniques, and a discussion of new trends in the study of cooperation and competition in large complex distributed systems. ÷ Sustainable Waste Management Challenges in Developing Countries John Wiley & Sons 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

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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