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Multifunctional Materials Challa Kumar 2020-03-23 This is the second volume in the series of books covering practical aspects of synthesis and characterization of various categories of nanomaterials taking into consideration the most up to date research publications. The aim of the book series is to provide students and researchers practical information such as synthetic procedures, characterization protocols and mechanistic insights to enable them to either reproduce well established methods or plan for new syntheses of size and shaped controlled nanomaterials. The second volume focuses on multifunctional nanomaterials.

Cryptocurrencies and Blockchain Technology Applications Gulshan Shrivastava 2020-06-30

As we enter the Industrial Revolution 4.0, demands for an increasing degree of trust and privacy protection continue to be voiced. The development of blockchain technology is very important because it can help frictionless and transparent financial transactions and improve the business experience, which in turn has far-reaching effects for economic, psychological, educational and organizational improvements in the way we work, teach, learn and care for ourselves and each other. Blockchain is an eccentric technology, but at the same time, the least understood and most disruptive technology of the day. This book covers the latest technologies of cryptocurrencies and blockchain technology and their applications. This book discusses the blockchain and cryptocurrencies related issues and also explains how to provide the security differently through an algorithm, framework, approaches, techniques and mechanisms. A comprehensive understanding of what blockchain is and how it works, as well as insights into how it will affect the future of your organization and industry as a whole and how to integrate blockchain technology into your business strategy. In addition, the book explores the blockchain and its with other technologies like Internet of Things, big data and artificial intelligence, etc.

Playing With Parallel Port Ujash G. Patel 2016-05-11 Turn your computer in to super controlling device to control Dc, Stepper motor with your own GUI (Graphics User Interface) in turbo c. This book deals with a c language and parallel port communication. The book is design to Learn Development of GUI (Graphics User Interface) with c language. Book contents 6 chapters with step by step guide to learn basic program with turbo c. This book is ideal for beginner to learn Basic Controlling techniques with Turbo C and Parallel Port. Again

the book does not contain any of theory explanation on c language and its programming. It's give you practical understanding about GUI Development , Making of Motor Driven Circuit , controlling Dc , Stepper Motor in Real Time Application With your Own Made Operation Window in C . The book is for Students, non it engineers, Robotic researcher What you will learn 1. Development of GUI for controlling 7 led in different sequence. 2. Development of GUI for Controlling Dc motor. 3. Development of GUI for Controlling Stepper motor. 4. Making of Motor driven circuit. 5. Making of prototype to control output device with turbo c and parallel port.

Instant Gson Sandeep Kumar Patel 2013-01-01 Get to grips with a new technology, understand what it is and what it can do for you, and then get to work with the most important features and tasks. Instant GSON is a practical, hands-on guide that will explain the implementation features of the GSON API through examples with code. Instant GSON is for software developers who are new to the GSON library, and who are looking to explore it in depth. You should have some experience in Java programming and Java POJO classes.

AI and Machine Learning Paradigms for Health Monitoring System Hasmat Malik 2021-02-14 This book embodies principles and applications of advanced soft computing approaches in engineering, healthcare and allied domains directed toward the researchers aspiring to learn and apply intelligent data analytics techniques. The first part covers AI, machine learning and data analytics tools and techniques and their applications to the class of several hospital and health real-life problems. In the later part, the applications of AI, ML and data analytics shall be covered over the wide variety of applications in hospital, health, engineering and/or applied sciences such as the clinical services, medical image analysis, management support, quality analysis, bioinformatics, device analysis and operations. The book presents knowledge of experts in the form of chapters with the objective to introduce the theme of intelligent data analytics and discusses associated theoretical applications. At last, it presents simulation codes for the problems included in the book for better understanding for beginners.

B.Sc. Practical Physics CL Arora 2001 B.Sc. Practical Physics

Proceedings of the Multi-Conference 2011 Himanshu B. Soni 2011-06-06 The International Conference on Signals, Systems and Automation (ICSSA 2011) aims to spread awareness in the research and academic community regarding cutting-edge technological advancements revolutionizing the world. The main emphasis of this conference is on dissemination of information, experience, and research results on the current topics of interest through in-depth discussions and participation of researchers from all over the world. The objective is to provide a platform to scientists, research scholars, and industrialists for interacting and exchanging ideas in a number of research areas. This will facilitate communication among researchers in different fields of Electronics and Communication Engineering. The International Conference on Intelligent System and Data Processing (ICISD 2011) is organized to address various issues that will foster the creation of intelligent solutions in the future. The primary goal of the conference is to bring together worldwide leading researchers, developers, practitioners, and educators interested in advancing the state of the art in computational intelligence and data processing for exchanging knowledge that encompasses a broad range of disciplines among various distinct communities. Another goal is to promote scientific information interchange between researchers, developers, engineers, students, and practitioners working in India and abroad.

DISTRIBUTED SYSTEM Garima Verma/Khusboo Saxena/Sandeep Saxena 2018-06-01

Description: The book has been written in such a way that the concepts are explained in detail, giving adequate emphasis on examples. To make clarity on the topic, diagrams are given extensively throughout the text. Various questions are included that vary widely in type and difficulty to understand the text. The book discusses design issues for phases of Distributed System in substantial depth. The stress is more on problem solving. The students preparing for PHD entrance will also get benefit from this text, for them University questions are also given. Table Of Contents: Chapter 1 : Introduction To Distributed System Chapter 2 : System Models Chapter 3 : Theoretical Foundation Chapter 4 : Distributed Mutual Exclusion Chapter 5 : Distributed Deadlock Detection Chapter 6 : Agreement Protocol Chapter 7 : Distributed File System Chapter 8 : Distributed Shared Memory Chapter 9 : Failure Recovery In Distributed System Chapter 10 : Fault Tolerance Chapter 11 : Transaction and Concurrency Control Chapter 12 : Distributed Transaction Chapter 13 : Replication

Advances in Computational Intelligence and Communication Technology Xiao-Zhi Gao 2020-06-18 This book features high-quality papers presented at the International Conference on Computational Intelligence and Communication Technology (CICT 2019) organized by ABES Engineering College, Ghaziabad, India, and held from February 22 to 23, 2019. It includes the latest advances and research findings in fields of computational science and communication such as communication & networking, web & informatics, hardware and software designs, distributed & parallel processing, advanced software engineering, advanced database management systems and bioinformatics. As such, it is of interest to research scholars, students, and engineers around the globe.

Advances in Manufacturing Technology Somashekhar S. Hiremath 2019-04-17 This volume comprises select papers presented at the International Conference on Advances in Manufacturing Technology (ICAMT 2018). It includes contributions from different researchers and practitioners working in the field of advanced manufacturing technology. This book covers diverse topics of contemporary manufacturing technology including material processes, machine tools, cutting tools, robotics and automation, manufacturing systems, optimization technologies, 3D scanning and re-engineering, and 3D printing. Computer applications in design, analysis, and simulation tools for solving manufacturing problems at various levels starting from material designs to complex manufacturing systems are also discussed. This book will be useful for students, researchers, and practitioners working in the field of manufacturing technology.

Data Science and Analytics Usha Batra 2020-05-28 This two-volume set (CCIS 1229 and CCIS 1230) constitutes the refereed proceedings of the 5th International Conference on Recent Developments in Science, Engineering and Technology, REDSET 2019, held in Gurugram, India, in November 2019. The 74 revised full papers presented were carefully reviewed and selected from total 353 submissions. The papers are organized in topical sections on data centric programming; next generation computing; social and web analytics; security in data science analytics; big data analytics.

International Tourism Yvette Reisinger, PhD 2010-08-27 In recent years there has been a considerable interest in the cultural aspects of tourism such as the impacts of culture on tourism planning, development, management, and marketing. However, the focus has been on material forms of culture such as arts, music, or crafts. The impacts of national culture on

tourist behavior and travel decision-making have not been paid much attention. Only in the last two years have cross-cultural issues begun to generate significant interest among academics. An examination of cultural characteristics and differences is extremely important to the tourism industry because today's tourism environment is becoming increasingly international. Information on the nature of the cultural differences between international tourists and locals is not readily available in tourism literature. The concept of culture is very complex and includes such abstract concepts as satisfaction, attitude and loyalty. International Tourism brings these concepts to the undergraduate student in tourism, as well as students in the related fields of marketing, management, international business, and cross-cultural communication. Designed as a textbook, it is organized and presented in an integrated and relevant way for the benefit of a worldwide audience.

Transmission Line Protection Using Digital Technology Vijay H. Makwana 2016-06-21 This book develops novel digital distance relaying schemes to eliminate the errors produced by the conventional digital distance relays while protecting power transmission lines against different types of faults. These include high resistance ground faults on single infeed transmission lines; high resistance ground faults on double infeed transmission lines; simultaneous open conductor and ground fault on double infeed transmission lines; inter-circuit faults on parallel transmission lines; simultaneous open conductor and ground fault on series compensated parallel transmission lines; inter-circuit faults on series compensated parallel transmission lines; and phase faults on series compensated double infeed transmission lines. This monograph also details suggestions for further work in the area of digital protection of transmission lines. The contents will be useful to academic as well as professional researchers working in transmission line protection.

Design and Modeling of Low Power VLSI Systems Sharma, Manoj 2016-06-06 Very Large Scale Integration (VLSI) Systems refer to the latest development in computer microchips which are created by integrating hundreds of thousands of transistors into one chip. Emerging research in this area has the potential to uncover further applications for VLSI technologies in addition to system advancements. Design and Modeling of Low Power VLSI Systems analyzes various traditional and modern low power techniques for integrated circuit design in addition to the limiting factors of existing techniques and methods for optimization. Through a research-based discussion of the technicalities involved in the VLSI hardware development process cycle, this book is a useful resource for researchers, engineers, and graduate-level students in computer science and engineering.

Advances in Materials Processing and Manufacturing Applications Amar Patnaik 2022-06-24 This book presents selected papers from the International Conference on Advances in Materials Processing and Manufacturing Applications (iCADMA 2020), held on November 5-6, 2020, at Malaviya National Institute of Technology, Jaipur, India. iCADMA 2020 proceedings is divided into four topical tracks - Advanced Materials, Materials Manufacturing and Processing, Engineering Optimization and Sustainable Development, and Tribology for Industrial Application.

Arduino + Visual basic 6.0 Ujash G. Patel 2016-06-08 Use Arduino and VB 6.0 to control LEDs, DC motors, stepper motors, and servo motors; create voice guidance programs; interface with the RF module; and make a simple wireless Arduino robot. This book deals with Arduino and Visual Basic serial communication and contains many programs and builds

to help you get a clear understanding of practical controlling. Every example is described with a breadboard circuit, so you can learn best practices for circuit implementation with Arduino. Arduino + VB 6.0 is ideal for beginners, non-IT engineers, and researchers eager to make some cool projects with Arduino. Using Visual Basic and Arduino together means that your projects will be reliable and limited only by your imagination. Who This Book Is For Students, robotics researchers, non-IT engineers. What You Will Learn Arduino and Visual Basic 6.0 wired and wireless serial communication Arduino robot building, including circuit implementation, Arduino programming and developing a Visual Basic program that will control the robot Interfacing RF (Radio Frequency) with Arduino and Visual Basic 6.0 PWM (Pulse Width Modulation) of DC motors, angle control of servo motors, and step control of stepper motors div

Engineering Graphics for the First Year Student (GTU) Prof. P. J. Shah Engineering Graphics, in its 13th year, has been succinctly revised for the Engineering students of 1st year of Gujarat Technological University, Ahmedabad Beginning with the units, dimensions and standard, this book discusses the measurement and measurement errors. Then, it goes on to discuss electronics equipment, measurements of low resistance and A.C. bridges. Moreover, the book deals with the cathode ray oscilloscopes. Further, it describes various instrument calibration. Finally, the book deals with recorders and plotters.

Advances in System Optimization and Control Sri Niwas Singh 2018-06-08 This book comprises select proceedings of the International Conference on Advancement in Energy, Drives, and Control. It covers frontier topics in optimization and control. It covers applications of optimization processes in areas such as computer architecture, communication systems, system optimization, signal processing, fluid dynamics and process control. This book is of use to researchers, professionals, and students from across engineering disciplines.

Discrete Mathematical Structures with Applications to Computer Science Jean-Paul Tremblay 1987

Recent Trends in Image Processing and Pattern Recognition K. C. Santosh 2019-07-19 This three-volume set constitutes the refereed proceedings of the Second International Conference on Recent Trends in Image Processing and Pattern Recognition (RTIP2R) 2018, held in Solapur, India, in December 2018. The 173 revised full papers presented were carefully reviewed and selected from 374 submissions. The papers are organized in topical sections in the three volumes. Part I: computer vision and pattern recognition; machine learning and applications; and image processing. Part II: healthcare and medical imaging; biometrics and applications. Part III: document image analysis; image analysis in agriculture; and data mining, information retrieval and applications.

It's all about Excellence Darshak Desai 2020-11-26 "Your problem is you don't know your problem." - the response Manthan Desai, a young engineer, got while seeking advice from his favourite professor about implementing Six Sigma, a breakthrough business improvement strategy to fix the chronic problem of late deliveries at his company, Minewell Pvt. Ltd. "We are a corporate house, not a research and development institute and profits matter here, not the discoveries." - and this was the reaction of the MD of Minewell Pvt. Ltd. to Desai's sincere efforts to move the firm out of the crisis by experimenting with Six Sigma

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methodology. Apart from embracing a tough mission of developing critical products of mining machinery as his first professional assignment, full of challenges and complexities coupled with life-threatening experiences at highly uncomfortable and dangerous mining fields, Desai, our young engineer, also encounters with Minewell's chronic problem of late deliveries. They are miserably failing to maintain the delivery commitments made to their customers. He experiments with Six Sigma breakthrough business improvement strategy to save the jeopardizing business of Minewell, first by understanding the theory and then convincing the company management to go for it. Let's see how far Desai can go with his tool kit backed up by his 'nothing but excellence' attitude and ASK theory as taught by his father.

Organic Chemistry I as a Second Language David R. Klein 2007-06-22 Get a Better Grade in Organic Chemistry Organic Chemistry may be challenging, but that doesn't mean you can't get the grade you want. With David Klein's Organic Chemistry as a Second Language: Translating the Basic Concepts, you'll be able to better understand fundamental principles, solve problems, and focus on what you need to know to succeed. Here's how you can get a better grade in Organic Chemistry: Understand the Big Picture. Organic Chemistry as a Second Language points out the major principles in Organic Chemistry and explains why they are relevant to the rest of the course. By putting these principles together, you'll have a coherent framework that will help you better understand your textbook. Study More Efficiently and Effectively Organic Chemistry as a Second Language provides time-saving study tips and a clear roadmap for your studies that will help you to focus your efforts. Improve Your Problem-Solving Skills Organic Chemistry as a Second Language will help you develop the skills you need to solve a variety of problem types-even unfamiliar ones! Need Help in Your Second Semester? Get Klein's Organic Chemistry II as a Second Language! 978-0-471-73808-5

Proceedings of the International Conference on Intelligent Systems and Signal Processing Rahul Kher 2018-01-18 The book provides insights into International Conference on Intelligent Systems and Signal Processing (ISSP 2017) held at G.H. Patel College of Engineering & Technology, Gujarat, India during March 24-25, 2017. The book comprises contributions by the research scholars and academicians covering the topics in signal processing and communication engineering, applied electronics and emerging technologies, computer vision and machine learning, big data and cloud computing and advanced intelligent power electronics and drives systems. The main emphasis of the book is on dissemination of information, experience and research results on the current topics of interest through in-depth discussions and contribution of researchers from all over world. The book is useful for research community, academicians, industrialists and post graduate students across the globe.

Digital Computer Fundamentals Thomas C. Bartee 1985

Proceedings of the International e-Conference on Intelligent Systems and Signal Processing Falgun Thakkar 2021-08-13 This book provides insights into the Third International Conference on Intelligent Systems and Signal Processing (eISSP 2020) held By Electronics & Communication Engineering Department of G H Patel College of Engineering & Technology, Gujarat, India, during 28-30 December 2020. The book comprises contributions by the research scholars and academicians covering the topics in signal processing and communication engineering, applied electronics and emerging technologies,

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Internet of Things (IoT), robotics, machine learning, deep learning and artificial intelligence. The main emphasis of the book is on dissemination of information, experience and research results on the current topics of interest through in-depth discussions and contribution of researchers from all over world. The book is useful for research community, academicians, industrialists and postgraduate students across the globe.

Proceedings of the International Conference on Signal, Networks, Computing, and Systems

Daya K. Lobiyal 2016-10-13 The book is a collection of high-quality peer-reviewed research papers presented in the first International Conference on Signal, Networks, Computing, and Systems (ICSNCS 2016) held at Jawaharlal Nehru University, New Delhi, India during February 25-27, 2016. The book is organized in to two volumes and primarily focuses on theory and applications in the broad areas of communication technology, computer science and information security. The book aims to bring together the latest scientific research works of academic scientists, professors, research scholars and students in the areas of signal, networks, computing and systems detailing the practical challenges encountered and the solutions adopted.

Soft Computing and Signal Processing V. Sivakumar Reddy 2021-05-20 This book presents selected research papers on current developments in the fields of soft computing and signal processing from the Third International Conference on Soft Computing and Signal Processing (ICSCSP 2020). The book covers topics such as soft sets, rough sets, fuzzy logic, neural networks, genetic algorithms and machine learning and discusses various aspects of these topics, e.g., technological considerations, product implementation and application issues.

Multimodal User Interfaces Dimitros Tzovaras 2008-02-27 tionship indicates how multimodal medical image processing can be unified to a large extent, e. g. multi-channel segmentation and image registration, and extend information theoretic registration to other features than image intensities. The framework is not at all restricted to medical images though and this is illustrated by applying it to multimedia sequences as well. In Chapter 4, the main results from the developments in plastic UIs and mul- modal UIs are brought together using a theoretic and conceptual perspective as a unifying approach. It is aimed at defining models useful to support UI plasticity by relying on multimodality, at introducing and discussing basic principles that can drive the development of such UIs, and at describing some techniques as proof-of-concept of the aforementioned models and principles. In Chapter 4, the authors introduce running examples that serve as illustration throughout the d- cussion of the use of multimodality to support plasticity.

Machine Drawing P. S. Gill 2009-01-01

ICCCE 2019 Amit Kumar 2019-08-02 This book is a collection research papers and articles from the 2nd International Conference on Communications and Cyber-Physical Engineering (ICCCE - 2019), held in Pune, India in Feb 2019. Discussing the latest developments in voice and data communication engineering, cyber-physical systems, network science, communication software, image- and multimedia processing research and applications, as well as communication technologies and other related technologies, it includes contributions from both academia and industry.

Networking Communication and Data Knowledge Engineering Gregorio Martinez Perez

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2017-11-13 Data science, data engineering and knowledge engineering requires networking and communication as a backbone and have wide scope of implementation in engineering sciences. Keeping this ideology in preference, this book includes the insights that reflect the advances in these fields from upcoming researchers and leading academicians across the globe. It contains high-quality peer-reviewed papers of 'International Conference on Recent Advancement in Computer, Communication and Computational Sciences (ICRACCCS 2016)', held at Janardan Rai Nagar Rajasthan Vidyapeeth University, Udaipur, India, during 25-26 November 2016. The volume covers variety of topics such as Advanced Communication Networks, Artificial Intelligence and Evolutionary Algorithms, Advanced Software Engineering and Cloud Computing, Image Processing and Computer Vision, and Security. The book will help the perspective readers from computer industry and academia to derive the advances of next generation communication and computational technology and shape them into real life applications.

Applications and Developments in Grid, Cloud, and High Performance Computing

Udoh, Emmanuel 2012-09-30 "This book provides insight into the current trends and emerging issues by investigating grid and cloud evolution, workflow management, and the impact new computing systems have on the education fields as well as the industries"-- Provided by publisher.

You Can Achieve More Shiv Khera 2018-08-23 While it is often said that a person with a negative attitude cannot be helped, it is also true that a person with a positive attitude cannot be stopped. Life is an obstacle course in which we can often become our own biggest obstacle, but a positive attitude can be transformational. In one sense, this book is a road map for a life journey in achieving more. It offers direction and can help you make positive decisions in a noisy and cluttered environment. Success is neither a miracle nor a mystery. It is the natural outcome of consistently applying certain principles on an ongoing basis. Success does not depend upon special skills, formal education or superior intelligence. Success is a matter of understanding and acting upon principles that have been in existence for centuries. These principles may be simple in themselves but none of them will work unless they are put into firm and decisive action. This book effectively teaches not only the principles of success but also how to avoid expensive and demoralising mistakes. The principles themselves are universal, cutting across country, culture and religion. Diligently practising them will help you develop confidence and allow your life to become more meaningful and rewarding. Applying these principles may require a lot of self-discipline and commitment but, once learned and applied, the results can be rewarding and gratifying. If you want to be successful and happy, then become a student and study the life of successful people in depth; if you want to become wealthy, then study the principles of acquiring wealth. Learning to make a living and learning to live are two different things. This book helps you design a more meaningful life, by making positive choices and avoiding the most common pitfalls. Acquiring facts is knowledge; interpreting facts is understanding; and the proper application of facts is wisdom. This book by Shiv Khera is designed to help you create an action plan to optimize your potential - in other words, to achieve more.

Intelligent Computing and Applications Subhransu Sekhar Dash 2020-09-29 This book presents the peer-reviewed proceedings of the 5th International Conference on Intelligent Computing and Applications (ICICA 2019), held in Ghaziabad, India, on December 6-8, 2019. The contributions reflect the latest research on advanced computational methodologies such

as neural networks, fuzzy systems, evolutionary algorithms, hybrid intelligent systems, uncertain reasoning techniques, and other machine learning methods and their applications to decision-making and problem-solving in mobile and wireless communication networks.

Control of Synchronous Motors Jean-Paul Louis 2013-02-07 Synchronous motors are indubitably the most effective device to drive industrial production systems and robots with precision and rapidity. Their control law is thus critical for combining at the same time high productivity to reduced energy consumption. As far as possible, the control algorithms must exploit the properties of these actuators. Therefore, this work draws on well adapted models resulting from the Park's transformation, for both the most traditional machines with sinusoidal field distribution and for machines with non-sinusoidal field distribution which are more and more used in industry. Both, conventional control strategies like vector control (either in the synchronous reference frame or in the rotor frame) and advanced control theories like direct control and predictive control are thoroughly presented. In this context, a significant place is reserved to sensorless control which is an important and critical issue in tomorrow's motors.

Digital Signal Processing Laboratory Nasser Kehtarnavaz 2010 Field Programmable Gate Arrays (FPGAs) are increasingly becoming the platform of choice to implement DSP algorithms. This book is designed to allow DSP students or DSP engineers to achieve FPGA implementation of DSP algorithms in a one-semester DSP laboratory course or in a short design cycle time based on the LabVIEW FPGA Module. Features: - The first DSP laboratory book that uses the FPGA platform instead of the DSP platform for implementation of DSP algorithms - Incorporating introductions to LabVIEW and VHDL - Lab experiments covering FPGA implementation of basic DSP topics including convolution, digital filtering, fixed-point data representation, adaptive filtering, frequency domain processing - Hardware FPGA implementation applications including wavelet transform, software-defined radio, and MP3 player - Website providing downloadable LabVIEW FPGA codes

Material Science S.L. Kakani 2006-01-01 The Book Has Been Designed To Cover All Relevant Topics In B.E. (Mechanical/Metallurgy / Material Science / Production Engineering), M.Sc. (Material Science), B.Sc. (Honours), M.Sc. (Physics), M.Sc. (Chemistry), Amie And Diploma Students. Students Appearing For Gate, Upsc, Net, Slet And Other Entrance Examinations Will Also Find Book Quite Useful. In Nineteen Chapters, The Book Deals With Atomic Structure, The Structure Of Solids; Crystal Defects; Chemical Bonding; Diffusion In Solids; Mechanical Properties And Tests Of Materials; Alloys, Phase Diagrams And Phase Transformations; Heat Treatment; Deformation Of Materials; Oxidation And Corrosion; Electric, Magnetic, Thermal And Optical Properties; Semiconductors; Superconductivity; Organic Materials; Composites; And Nanostructured Materials. Special Features: * Fundamental Principles And Applications Are Discussed With Explanatory Diagrams In A Clear Way. * A Full Coverage Of Background Topics With Latest Development Is Provided. * Special Chapters On Nanostructured Materials, Superconductivity, Semiconductors, Polymers, Composites, Organic Materials Are Given . * Solved Problems, Review Questions, Problems, Short-Question Answers And Typical Objective Type Questions Alongwith Suggested Readings Are Given With Each Chapter.

Innovations in Electronics and Communication Engineering H. S. Saini 2018-08-28 The book is a collection of best selected research papers presented at 6th International Conference on

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Innovations in Electronics and Communication Engineering at Guru Nanak Institutions Hyderabad, India. The book presents works from researchers, technocrats and experts about latest technologies in electronic and communication engineering. The book covers various streams of communication engineering like signal processing, VLSI design, embedded systems, wireless communications, and electronics and communications in general. The authors have discussed the latest cutting edge technology and the volume will serve as a reference for young researchers.

Strategic System Assurance and Business Analytics P. K. Kapur 2020-06-19 This book systematically examines and quantifies industrial problems by assessing the complexity and safety of large systems. It includes chapters on system performance management, software reliability assessment, testing, quality management, analysis using soft computing techniques, management analytics, and business analytics, with a clear focus on exploring real-world business issues. Through contributions from researchers working in the area of performance, management, and business analytics, it explores the development of new methods and approaches to improve business by gaining knowledge from bulk data. With system performance analytics, companies are now able to drive performance and provide actionable insights for each level and for every role using key indicators, generate mobile-enabled scorecards, time series-based analysis using charts, and dashboards. In the current dynamic environment, a viable tool known as multi-criteria decision analysis (MCDA) is increasingly being adopted to deal with complex business decisions. MCDA is an important decision support tool for analyzing goals and providing optimal solutions and alternatives. It comprises several distinct techniques, which are implemented by specialized decision-making packages. This book addresses a number of important MCDA methods, such as DEMATEL, TOPSIS, AHP, MAUT, and Intuitionistic Fuzzy MCDM, which make it possible to derive maximum utility in the area of analytics. As such, it is a valuable resource for researchers and academicians, as well as practitioners and business experts.

CAD/CAM, Robotics and Factories of the Future Dipak Kumar Mandal 2016-01-05 This volume is based on the proceedings of the 28th International Conference on CAD/CAM, Robotics and Factories of the Future. This book specially focuses on the positive changes made in the field of robotics, CAD/CAM and future outlook for emerging manufacturing units. Some of the important topics discussed in the conference are product development and sustainability, modeling and simulation, automation, robotics and handling systems, supply chain management and logistics, advanced manufacturing processes, human aspects in engineering activities, emerging scenarios in engineering education and training. The contents of this set of proceedings will prove useful to both researchers and practitioners.