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Agent-Mediated Electronic Commerce VI Peyman Faratin 2006-02-14

This book constitutes the thoroughly refereed post-proceedings of the 6th International Workshop on Agent-Mediated Electronic Commerce, AMEC 2006, held in New York, NY, USA in July 2004 as part of AAMAS 2004. The 15 revised full papers presented were carefully selected from 39 submissions during two rounds of reviewing and revision. The papers bring together novel work from such diverse fields as Computer Science, Operations Research, Artificial Intelligence and Distributed Systems that focus on modeling, implementation and evaluation of computational trading institution and/or agent strategies over a diverse set of goods. They are organized in topical sections on mechanism design, trading agents, and tools.

Electronic Supply Network Coordination in Intelligent and Dynamic

Environments: Modeling and Implementation Mahdavi, Iraj 2010-10-31

"This book presents cutting-edge knowledge on scientific approaches to the management of supply networks in a highly informed global environment with abundant dynamic and uncertain challenges"--Provided by publisher.

The Electronics Assembly Handbook Frank Riley 2013-06-29 The assembly of electronic circuit boards has emerged as one of the most significant growth areas for robotics and automated assembly. This comprehensive volume, which is an edited collection of material mostly published in "Assembly Engineering" and "Electronic Packaging and Production", will provide an essential reference for engineers working in this field, including material on Multi Layer Boards, Chip-on-board and numerous case studies. Frank J. Riley is senior vice-president of the Bodine Corporation and a world authority on assembly automation.

Electronic Reliability Design Handbook 1984

Cooling of Electronic Systems Sadik Kakaç 2012-12-06 Electronic technology is developing rapidly and, with it, the problems associated with the cooling of microelectronic equipment are becoming increasingly complex. So much so that it is necessary for experts in the fluid and thermal sciences to become involved with the cooling problem. Such thoughts as these led to an approach to leading specialists with a request to contribute to the present book. Cooling of Electronic Systems presents the technical progress achieved in the fundamentals of the thermal management of electronic systems and thermal strategies for the design of microelectronic equipment. The book starts with an introduction to the cooling of electronic systems, involving such topics as trends in computer system cooling, the cooling of high performance computers, thermal design of microelectronic components, natural and forced convection cooling, cooling by impinging air and liquid jets, thermal control systems for high speed computers, together with a detailed review of advances in manufacturing and assembly technology. Following this, practical methods for the determination of the parameters required for the thermal analysis of electronic systems and the accurate prediction of temperature in consumer electronics. Cooling of Electronic Systems is currently the most up-to-date book on the thermal management of electronic and microelectronic equipment, and the subject is presented by eminent scientists and experts in the field. Vital reading for all designers of modern, high-speed computers.

Path Routing in Mesh Optical Networks Eric Bouillet 2007-10-24 Transport networks evolved from DCS (Digital Cross-connect Systems)-based mesh architectures, to SONET/SDH (Synchronous Optical Networking/Synchronous Digital Hierarchy) ring architectures in the 1990's. In the past few years, technological advancements in optical transport switches have allowed service providers to support the same fast recovery in mesh networks previously available in ring networks while achieving better capacity efficiency and resulting in lower capital cost. Optical transport networks today not only provide trunking capacity to higher-layer networks, such as inter-router connectivity in an IP-centric

infrastructure, but also support efficient routing and fast failure recovery of high-bandwidth services. This is possible due to the emergence of optical network elements that have the intelligence required to efficiently control the network. Optical mesh networks will enable a variety of dynamic services such as bandwidth-on-demand, Just-In-Time bandwidth, bandwidth scheduling, bandwidth brokering, and optical virtual private networks that open up new opportunities for service providers and their customers alike. Path Routing in Mesh Optical Networks combines both theoretical as well as practical aspects of routing and dimensioning for mesh optical networks. All authors have worked as technical leaders for the equipment vendor Tellium who implemented such capabilities in its product, and whose product was deployed in service provider networks. Path Routing in Mesh Optical Networks Presents an in-depth treatment of a specific class of optical networks, i.e. path-oriented mesh optical networks. Focuses on routing and recovery, dimensioning, performance analysis and availability in mesh optical networks. Explains and analyses routing specifically associated with Dedicated Backup Path Protection (DBPP) and Shared Backup Path Protection (SBPP) recovery architectures. As most of the core backbone networks evolve to mesh topologies utilizing intelligent network elements for provisioning and recovery of services, Path Routing in Mesh Optical Networks will be an invaluable tool for both researchers and engineers in the industry who are responsible for designing, developing, deploying and maintaining mesh optical networks. It will also be a useful reference book for graduate students and university professors who are interested in optical networks or telecommunications networking. With a foreword by Professor Wayne D. Grover, author of the book Mesh-Based Survivable Networks.

Naval Shore Electronics Criteria United States. Naval Electronic Systems Command 1972

Model-Based Engineering for Complex Electronic Systems Peter Wilson 2013-03-13 In the electronics industry today consumer demand for devices with hyper-connectivity and mobility has resulted in the development of a complete system on a chip (SoC). Using the old 'rule of thumb' design methods of the past is no longer feasible for these new complex electronic systems. To develop highly successful systems that meet the requirements and quality expectations of customers, engineers now need to use a rigorous, model-based approach in their designs. This book provides the definitive guide to the techniques, methods and technologies for electronic systems engineers, embedded systems engineers, and hardware and software engineers to carry out model-based electronic system design, as well as for students of IC systems design. Based on the authors' considerable industrial experience, the book shows how to implement the methods in the context of integrated circuit design flows. Complete guide to methods, techniques and technologies of model-based engineering design for developing robust electronic systems Written by world experts in model-based design who have considerable industrial experience Shows how to adopt the methods using numerous industrial examples in the context of integrated circuit design

Sub-optimum Solution of the Back-board Ordering with Channel Capacity Constraint S. Goto 1976

Electronic Design Automation Laung-Terng Wang 2009-03-11 This book provides broad and comprehensive coverage of the entire EDA flow. EDA/VLSI practitioners and researchers in need of fluency in an "adjacent" field will find this an invaluable reference to the basic EDA concepts, principles, data structures, algorithms, and architectures for the design, verification, and test of VLSI circuits. Anyone who needs to learn the concepts, principles, data structures, algorithms, and architectures of the EDA flow will benefit from this book. Covers complete spectrum of the EDA flow, from ESL design modeling to logic/test synthesis, verification, physical design, and test - helps EDA newcomers to get "up-and-running" quickly Includes comprehensive coverage of EDA concepts, principles,

data structures, algorithms, and architectures - helps all readers improve their VLSI design competence Contains latest advancements not yet available in other books, including Test compression, ESL design modeling, large-scale floorplanning, placement, routing, synthesis of clock and power/ground networks - helps readers to design/develop testable chips or products Includes industry best-practices wherever appropriate in most chapters - helps readers avoid costly mistakes

Bosch Automotive Electrics and Automotive Electronics Robert Bosch GmbH 2013-09-24 This is a complete reference guide to automotive electrics and electronics. This new edition of the definitive reference for automotive engineers, compiled by one of the world's largest automotive equipment suppliers, includes new and updated material. As in previous editions different topics are covered in a concise but descriptive way backed up by diagrams, graphs, photographs and tables enabling the reader to better comprehend the subject. This fifth edition revises the classical topics of the vehicle electrical systems such as system architecture, control, components and sensors. There is now greater detail on electronics and their application in the motor vehicle, including electrical energy management (EEM) and discusses the topic of inter system networking within the vehicle. It also includes a description of the concept of hybrid drive a topic that is particularly current due to its ability to reduce fuel consumption and therefore CO2 emissions. This book will benefit automotive engineers and design engineers, automotive technicians in training and mechanics and technicians in garages. It may also be of interest to teachers/ lecturers and students at vocational colleges, and enthusiasts.

Principles of Electronic Devices & Circuits BL Theraja | RS Sedha 2007 In this book we have included more examples, tutorial problems and objective test questions in almost all the chapters. The chapter on Optoelectronic Devices has been expanded to include more application examples in the area of optical fibre networks. The chapter on Regulated Power Supply carries more detailed study of fixed positive-Fixed negative and adjustable-linear IC voltage regulators as well as switching voltage regulator. The topic on OP-AMPs has been separated from the chapter on integrated Circuits. A new chapter is prepared on OP-AMPs and its Applications. The Chapter on OP-AMPs and its Applications includes OP-AMP based Oscillator circuits, active filters etc.

Emitter Detection and Geolocation for Electronic Warfare Nicholas O'Donoghue 2019-10-31 This comprehensive resource provides theoretical formulation for detecting and geolocating non-cooperative emitters. Implementation of geolocation algorithms are discussed, as well as performance prediction of a hypothetical passive location system for systems analysis or vulnerability calculation. Comparison of novel direction finding and geolocation algorithms to classical forms are also included. Rooted in statistical signal processing and array processing theory, this book also provides an overview of the application of novel detection and estimation algorithms to real world problems in EW. The book is divided into three parts: detection, angle of arrival estimation, and geolocation. Each section begins with an introductory chapter covering the relevant signal processing theory (either detection or estimation), then provides a series of chapters covering specific methods to achieve the desired end-product. MATLAB® code is provided to assist readers with relevant probability and statistics, RF propagation, atmospheric absorption, and noise, giving readers an understanding of the implementation of the algorithms in the book, as well as developing new approaches to solving problems. Packed with problem sets and examples, this book strikes a balance between introductory texts and reference manuals, making it useful for novice as well as advanced practitioners.

Emerging Trends in Electrical, Electronic and Communications Engineering Peter Fleming 2017-01-19 The book reports on advanced theories and methods in two related engineering fields: electrical and electronic engineering, and communications engineering and computing. It highlights areas of global and growing importance, such as renewable energy, power systems, mobile communications, security and the Internet of Things (IoT). The contributions cover a number of current research issues, including smart grids, photovoltaic systems, wireless power transfer, signal processing, 4G and 5G technologies, IoT applications, mobile cloud computing and many more. Based on the proceedings of the first International Conference on Emerging Trends in Electrical, Electronic and Communications Engineering (ELECOM 2016), held in Voila Bagatelle, Mauritius from November 25 to 27, 2016, the book provides graduate students, researchers and professionals with a snapshot of the state-of-the-art and a source of new ideas for future research and collaborations.

Particle swarm optimizer: Economic dispatch with valve point effect using various PSO techniques Vikramarajan Jambulingam 2014-05-01 Four

modified versions of particle swarm optimizer (PSO) have been applied to the economic power dispatch with valve-point effects. In order to obtain the optimal solution, traditional PSO search a new position around the current position. The proposed strategies which explore the vicinity of particle's best position found so far leads to a better result. In addition, to deal with the equality constraint of the economic dispatch problems, a simple mechanism is also devised that the difference of the demanded load and total generating power is evenly shared among units except the one reaching its generating limit. To show their capability, the proposed algorithms are applied to thirteen. Comparison among particle swarm optimization is given. The results show that the proposed algorithms indeed produce more optimal solutions in both cases. The different PSO techniques are New PSO, Self-Adaptive PSO and Chaotic PSO Among the different PSO techniques, it is found that Self-Adaptive PSO is better than other PSO techniques in terms of better solutions, speed of convergence, time of execution and robustness but it has more premature convergence.

Placement and Routing of Electronic Modules Michael Pecht 2020-08-26 This practical guide presents and compares the fundamental theories and techniques of placement and routing and provides important new approaches to solving specific problems.; Focusing on highly reliable methods for good manufacturing capability, Placement and Routing of Electronic Modules: discusses the mathematical basis for placement and routing, including set, combinatorial and graph theories; explicates the definitions, structures and relationships of tree types and gives methods of finding minimum trees; furnishes useful techniques for placing and routing high-density modules; supplies ways to determine the work-space area needed for placement and routing; shows how to estimate the number of layers necessary to complete routing; explains via minimization to reduce work-space area, facilitate manufacture, and reduce the number of layers; demonstrates a variety of search strategies for paths connecting two nodes on a work space with obstacles; and much more. Containing over 300 illustrative examples, figures and tables that clarify concepts and enhance understanding, Placement and Routing of Electronic Modules should be a useful tool for electrical and electronics, mechanical, reliability, process, and manufacturing engineers; computer scientists; applied mathematicians; and graduate-level students in these disciplines.

Innovations in Electrical and Electronic Engineering Saad Mekhilef

An Introduction to Management Science: Quantitative Approaches to Decision Making David R. Anderson 2015-01-01 Reflecting the latest developments in Microsoft Office Excel 2013, Anderson/Sweeney/Williams/Camm/Cochran/Fry/Ohlmann's AN INTRODUCTION TO MANAGEMENT SCIENCE: QUANTITATIVE APPROACHES TO DECISION MAKING, 14E equips readers with a sound conceptual understanding of the role that management science plays in the decision-making process. The trusted market leader for more than two decades, the book uses a proven problem-scenario approach to introduce each quantitative technique within an applications setting. All data sets, applications, and screen visuals reflect the details of Excel 2013 to effectively prepare you to work with the latest spreadsheet tools. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Cognitive Electronic Warfare: An Artificial Intelligence Approach Karen Haigh 2021-07-31 This comprehensive book gives an overview of how cognitive systems and artificial intelligence (AI) can be used in electronic warfare (EW). Readers will learn how EW systems respond more quickly and effectively to battlefield conditions where sophisticated radars and spectrum congestion put a high priority on EW systems that can characterize and classify novel waveforms, discern intent, and devise and test countermeasures. Specific techniques are covered for optimizing a cognitive EW system as well as evaluating its ability to learn new information in real time. The book presents AI for electronic support (ES), including characterization, classification, patterns of life, and intent recognition. Optimization techniques, including temporal tradeoffs and distributed optimization challenges are also discussed. The issues concerning real-time in-mission machine learning and suggests some approaches to address this important challenge are presented and described. The book covers electronic battle management, data management, and knowledge sharing. Evaluation approaches, including how to show that a machine learning system can learn how to handle novel environments, are also discussed. Written by experts with first-hand experience in AI-based EW, this is the first book on in-mission real-time learning and optimization.

The Electronics Handbook Jerry C. Whitaker 1996-12-23 The superb organization of The Electronics Handbook means that it is not only a

comprehensive and fascinating reference, but also a pleasure to use. Some of these organizational features include:

Structured Electronic Design Arie van Staveren 2006-04-18 Analog design still has, unfortunately, a flavor of art. Art can be beautiful. However, art in itself is difficult to teach to students and difficult to transfer from experienced analog designers to new trainee designers in companies. *Structured Electronic Design: High-Performance Harmonic Oscillators and Bandgap References* aims to systemize analog design. The use of orthogonalization of the design of the fundamental quality aspects (noise, distortion, and bandwidth) and hierarchy in the subsequent design steps, enables designers to achieve high-performance designs, in a relatively short time. As a result of the systematic design procedure, the effect of design decisions on the circuit performance is made clear. Additionally, the use of resources for reaching a specified performance is tracked. This book, therefore, describes the structured electronic design of high-performance harmonic oscillators and bandgap references. The structured design of harmonic oscillators includes the maximization of the carrier-to-noise ratio by means of tapping, i.e. an impedance adaptation method for noise matching. The bandgap reference, a popular implementation of a voltage reference, is studied via the unusual concept of the linear combination of base-emitter voltages. The presented method leads to the design of high-performance references in CMOS and Bipolar technology. Using this concept, on a high level of abstraction the quality with respect to, for instance, noise and power-supply rejection can be identified. In this book, it is shown with several design examples that this method provides an excellent starting point for the design of high-performance bandgap references. Auxiliary to the harmonic-oscillator and bandgap reference design are the negative-feedback amplifiers. In this book the systematic design of the dynamic behavior is emphasized. By means of the identification of the dominant poles, it is possible to give an upper limit of the attainable bandwidth, even before the real frequency compensation is accomplished. *Structured Electronic Design: High-Performance Harmonic Oscillators and Bandgap References* is a valuable book for researchers and designers, as well as students in the field of analog design. It helps both the experienced and trainee designer to come to grips with the design of analog circuits. The presented method is illustrated by several well-described design examples.

Pharmacy Law Desk Reference Albert I Wertheimer 2012-10-12 Your primary source for information on the legal issues of pharmaceutical practice, care, and activity Today's pharmacist is faced with legal, ethical, and moral concerns in making the transition from traditional pharmacy practice to an expanded role in clinical pharmacy and patient drug management services. *Pharmacy Law Desk Reference* is a primer on the legal aspects of pharmaceutical practice, providing background on foundational legal concepts, and guidance on the Food, Drug, and Cosmetic Act (FDCA), the Controlled Substances Act (CSA), and the Federal Trade Commission. This unique book examines the major topics that impact pharmaceutical care, including professional liability insurance; the need for supportive personnel in pharmacy practice; patent law, trademarks, and copyrights; law and ethics; business law; HIPAA privacy in the pharmacy; electronic prescribing; and medication error reporting. Handy tables, figures, and exhibits make complex information easy to access and understand. The better pharmacists understand the regulatory and legislative framework that shapes their practice, the better they will be able to carry out their responsibilities to patients. *Pharmacy Law Desk Reference* offers a broad scope on established legal subjects, the current direction of the profession, and important contemporary topics that affect the clinical role of the practicing pharmacist. Each chapter is authored by a nationally recognized authority on one or more aspect of pharmacy law and many of the contributors are active in the American Society of Pharmacy Law. Topics addressed in *Pharmacy Law Desk Reference* include: telepharmacy collaborative drug therapy management trade secrets and trade secret protection anti-competitive practices the threat of civil and criminal liability the Health Insurance Portability and Accountability Act of 1996 (HIPAA) FDA inspections consumer protection laws credentialing pharmacy compounding accreditation employment contracts Medicaid and Medicare controlled substance registration and prescription orders forged prescription orders and many more *Pharmacy Law Desk Reference* is a comprehensive resource on the professional, legal, and contemporary issues in pharmacy practice. It is a primary reference guidebook for pharmacy practitioners, leaders of state and national pharmacists associations, members of state boards of pharmacy, educators and students, and an essential addition to all pharmacy libraries.

Reliability of Military Electronic Equipment United States. Advisory

Group on Reliability of Electronic Equipment 1957

Advances in Electronic Circuit Packaging Lawrence L. Rosine 2013-12-01

Measuring Electronics and Sensors Herbert Bernstein

Electronic Systems and Applications R. P. Agarwal 1994

Innovations in Electrical and Electronic Engineering Margarita N. Favorskaya 2020-07-25 The book is a compilation of selected papers from 2020 International Conference on Electrical and Electronics Engineering (ICEEE 2020) held in National Power Training Institute HQ (Govt. of India) on February 21 - 22, 2020. The work focuses on the current development in the fields of electrical and electronics engineering like power generation, transmission and distribution, renewable energy sources and technology, power electronics and applications, robotics, artificial intelligence and IoT, control, and automation and instrumentation, electronics devices, circuits and systems, wireless and optical communication, RF and microwaves, VLSI, and signal processing. The book is beneficial for readers from both academia and industry.

Advanced Routing of Electronic Modules Michael Pecht 1995-10-23

The rapid growth of the electronic products market has created an increasing need for affordable, reliable, high-speed and high-density multi-layer printed circuit boards (PCBs). This book presents the technologies, algorithms, and methodologies for engineers and others developing the next generation of electronic products. A vision of the future in advanced electronics *Advanced Routing of Electronic Modules* provides both fundamental theory and advanced technologies for improving routing. Beginning chapters discuss approaches to approximate a minimum rectilinear Steiner tree from a minimum spanning tree and introduce ways to avoid obstacles for routing simple multi-terminal nets sequentially in a workspace. Timing delay, clock skew, and noise control requirements in signal integrity are described as well as computer-aided approaches to managing these requirements in high-speed PCB/MCM routing. Later chapters present the two-layer wiring problem, rip-up and reroute approaches, and parallel routing, including global routing, boundary crossing placement, and detailed maze routing in hardware acceleration. Data structures, data management, and algorithms for parallel routing in a multiple-processor hardware systems are also covered.

Automotive Electronics Reliability Ronald K Jurgens 2010-08-30 Vehicle reliability problems continue to be the news because of major vehicle recalls from several manufacturers. This book includes 40 SAE technical papers, published from 2007 through 2010, that describe the latest research on automotive electronics reliability technology. This book will help engineers and researchers focus on the design strategies being used to minimize electronics reliability problems, and how to test and verify those strategies. After an overview of durability, risk assessment, and failure mechanisms, this book focuses on state-of-the-art techniques for reliability-based design, and reliability testing and verification. Topics include: powertrain control monitoring distributed automotive embedded systems model-based design x-by-wire systems battery durability design verification fault tree analysis The book also includes editor Ronald K. Jurgens introduction, "e;Striving for Maximum Reliability in a Highly Complex Electronic Environment"e;, and a concluding section on the future of electronics reliability, including networking technology, domain control units, the use of AUTOSAR, and embedded software.

Quantum-Based Electronic Devices and Systems

Unifying Electrical Engineering and Electronics Engineering Song Xing 2013-08-24 *Unifying Electrical Engineering and Electronics Engineering* is based on the Proceedings of the 2012 International Conference on Electrical and Electronics Engineering (ICEE 2012). This book collects the peer reviewed papers presented at the conference. The aim of the conference is to unify the two areas of Electrical and Electronics Engineering. The book examines trends and techniques in the field as well as theories and applications. The editors have chosen to include the following topics; biotechnology, power engineering, superconductivity circuits, antennas technology, system architectures and telecommunication.

Programming and Application of a DSP to Control and Regulate Power Electronic Converters: Programming in C++ Baris Bagci 2014-03-19 The purpose of this project has been to study, operate and program the 32-bit 150MIPS TMS320F2812 DSP developed by Texas Instruments Inc. In addition, it has also been a goal to implement fast estimation techniques for control of resonant converters. For this purpose, PWM signals that are generated using this DSP are used. The demands on the system and the hardware to solve the problem were already decided when I started the work. The algorithms were programmed in C/C++ language, compiled,

debugged and transferred to the DSP development board in a compiling and simulation tool (downloader), called CCS (Code Composer Studio v2), also provided by Texas Instruments. In the first chapters of this study I give general information about control systems, digital signal processors, digital signal processing and the DSP used in this work. The following chapters tell about PWM, how to configure the PWM outputs and some examples related with PWM signals are given. After a short review of series resonant converters, I presented the last example implemented in this project. I conclude with a summary and provide some hints of future work.

Transistor Electronics Karl-Heinz Rumpf 2014-05-09 Transistor Electronics: Use of Semiconductor Components in Switching Operations presents the semiconductor components as well as their elementary circuits. This book discusses the scope of application of electronic devices to increase productivity. Organized into eight chapters, this book begins with an overview of the general equation for the representation of integer positive numbers. This text then examines the properties and characteristics of basic electronic components, which relates to an understanding of the operation of semiconductors. Other chapters consider the electronic circuit arrangements containing semiconductor component parts. This book discusses as well the comprehensive unification and standardization of elementary circuits and their conditions of connection that allow the rational development, manufacture, and maintenance of electronic devices. The final chapter deals with the use of elementary, standardized circuits, which permits rational high production rates. This book is primarily intended for design and development engineers and technicians. Students who wish to make Electronics their career will also find this book useful.

Swarm Intelligence for Electric and Electronic Engineering Fornarelli, Girolamo 2012-12-31 With growing developments in artificial intelligence and focus on swarm behaviors; algorithms have been utilized in solving a variety of problems in the field of engineering. This approach has been specifically suited to face the challenges in electric and electronic engineering. *Swarm Intelligence for Electric and Electronic Engineering* provides an exchange of knowledge on the advances, discoveries, and improvements of swarm intelligence in electric and electronic engineering. This comprehensive collection aims to bring together new swarm-based algorithms as well as approaches to complex problems and various real-world applications.

Super-optimum Solutions and Win-win Policy Stuart S. Nagel 1997 Introduces the basic concepts and principles of a unique and highly effective technique--super-optimizing decision making--and explains how public-sector policy makers can use it in various fields.

Naval Shore Electronics Criteria: Installation Standards and Practices United States. Naval Electronic Systems Command 1972
Securing Electronic Business Processes Sachar Paulus 2013-12-01 Adequate information security is one of the basic requirements of all electronic business processes. It is crucial for effective solutions that the possibilities offered by security technology can be integrated with the commercial requirements of the applications. Here the positions of the

experts involved are very diverse: some strive for as much security as possible, others only for as much security as is necessary. The conference ISSE (Information Security Solutions Europe) is the outstanding forum for the interdisciplinary search for sustainable compromises and for the presentation of concepts which hold up in real life. This book offers the most recent papers in the area of strategies, technologies, applications and best practice.

FSTTCS 2006: foundations of software technology and theoretical computer science [electronic resource] S. Arun-Kumar 2006-11-27 This book constitutes the refereed proceedings of the 26th International Conference on the Foundations of Software Technology and Theoretical Computer Science, FSTTCS 2006, held in Kolkata, India, in December 2006. It contains 38 papers that cover a broad variety of current topics from the theory of computing, ranging from formal methods, discrete mathematics, complexity theory, and automata theory to theoretical computer science in general.

AI Techniques for Reliability Prediction for Electronic Components Bhargava, Cherry 2019-12-06 In the industry of manufacturing and design, one major constraint has been enhancing operating performance using less time. As technology continues to advance, manufacturers are looking for better methods in predicting the condition and residual lifetime of electronic devices in order to save repair costs and their reputation. Intelligent systems are a solution for predicting the reliability of these components; however, there is a lack of research on the advancements of this smart technology within the manufacturing industry. *AI Techniques for Reliability Prediction for Electronic Components* provides emerging research exploring the theoretical and practical aspects of prediction methods using artificial intelligence and machine learning in the manufacturing field. Featuring coverage on a broad range of topics such as data collection, fault tolerance, and health prognostics, this book is ideally designed for reliability engineers, electronic engineers, researchers, scientists, students, and faculty members seeking current research on the advancement of reliability analysis using AI.

Electromagnetic Fields in Mechatronics, Electrical and Electronic Engineering A. Krawczyk 2006-08-15 More and more researchers engage into investigation of electromagnetic applications, especially these connected with mechatronics, information technologies, medicine, biology and material sciences. It is readily seen when looking at the content of the book that computational techniques, which were under development during the last three decades and are still being developed, serve as good tools for discovering new electromagnetic phenomena. It means that the field of computational electromagnetics belongs to an application area rather than to a research area. This publication aims at joining theory and practice, thus the majority of papers are deeply rooted in engineering problems, being simultaneously of high theoretical level. The editors hope to touch the heart of the matter in electromagnetism. The book focuses on the following issues: Computational Electromagnetics; Electromagnetic Engineering; Coupled Field and Special Applications; Micro- and Special Devices; Bioelectromagnetics and Electromagnetic Hazard; and Magnetic Material Modeling.