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Internet of Medical Things D. Jude Hemanth 2021-04-13 This book looks at the growing segment of Internet of Things technology (IoT) known as Internet of Medical Things (IoMT), an automated system that aids in bridging the gap between isolated and rural communities and the critical healthcare services that are available in more populated and urban areas. Many technological aspects of IoMT are still being researched and developed, with the objective of minimizing the cost and improving the performance of the overall healthcare system. This book focuses on innovative IoMT methods and solutions being developed for use in the application of healthcare services, including post-surgery care, virtual home assistance, smart real-time patient monitoring, implantable sensors and cameras, and diagnosis and treatment planning. It also examines critical issues around the technology, such as security vulnerabilities, IoMT machine learning approaches, and medical data compression for lossless data transmission and archiving. Internet of Medical Things is a valuable reference for researchers, students, and postgraduates working in biomedical, electronics, and communications engineering, as well as practicing healthcare professionals.

Social Transformation – Digital Way Jyotsna Kumar Mandal 2018-08-23 This book constitutes the refereed proceedings of the 52nd Annual Convention of the Computer Society of India, CSI 2017, held in Kolkata, India, in January 2018. The 59 revised papers presented were carefully reviewed and selected from 157 submissions. The theme of CSI 2017, Social Transformation – Digital Way, was selected to highlight the importance of technology for both central and state governments at their respective levels to achieve doorstep connectivity with its citizens. The papers are organized in the following topical sections: Signal processing, microwave and communication engineering; circuits and systems; data science and data analytics; bio computing; social computing; mobile, nano, quantum computing; data mining; security and forensics; digital image processing; and computational intelligence.

Modeling and Simulation Techniques in Structural Engineering Samui, Pijush 2016-08-12 The development of new and effective analytical and numerical models is essential to understanding the performance of a variety of structures. As computational methods continue to advance, so too do their applications in structural performance modeling and analysis. Modeling and Simulation Techniques in Structural Engineering presents emerging research on computational techniques and applications within the field of structural engineering. This timely publication features practical applications as well as new research insights and is ideally designed for use by engineers, IT professionals, researchers, and graduate-level students.

Advances in Communication and Computational Technology Gurdeep Singh Hura 2020-08-13 This

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book presents high-quality peer-reviewed papers from the International Conference on Advanced Communication and Computational Technology (ICACCT) 2019 held at the National Institute of Technology, Kurukshetra, India. The contents are broadly divided into four parts: (i) Advanced Computing, (ii) Communication and Networking, (iii) VLSI and Embedded Systems, and (iv) Optimization Techniques. The major focus is on emerging computing technologies and their applications in the domain of communication and networking. The book will prove useful for engineers and researchers working on physical, data link and transport layers of communication protocols. Also, this will be useful for industry professionals interested in manufacturing of communication devices, modems, routers etc. with enhanced computational and data handling capacities.

Intelligent Systems and Applications Kohei Arai 2018-11-07 Gathering the Proceedings of the 2018 Intelligent Systems Conference (IntelliSys 2018), this book offers a remarkable collection of chapters covering a wide range of topics in intelligent systems and computing, and their real-world applications. The Conference attracted a total of 568 submissions from pioneering researchers, scientists, industrial engineers, and students from all around the world. These submissions underwent a double-blind peer review process, after which 194 (including 13 poster papers) were selected to be included in these proceedings. As intelligent systems continue to replace and sometimes outperform human intelligence in decision-making processes, they have made it possible to tackle many problems more effectively. This branching out of computational intelligence in several directions, and the use of intelligent systems in everyday applications, have created the need for such an international conference, which serves as a venue for reporting on cutting-edge innovations and developments. This book collects both theory and application-based chapters on all aspects of artificial intelligence, from classical to intelligent scope. Readers are sure to find the book both interesting and valuable, as it presents state-of-the-art intelligent methods and techniques for solving real-world problems, along with a vision of future research directions.

A Suitable Boy Vikram Seth 1994

Dimensions of Economic Theory and Policy Anjan Mukherji 2011 What is the role of human capital in the regional location of the software industry? Why did policy rate cuts in India not lead to a rapid lowering of the banks' lending rates in the context of the financial crises? How does women's education impact on patrilocal marriage and cultural norms? What is the impact of the quality of teachers on the growth process in a small economy with a universal public education system? This volume engages with various such topical issues through an innovative use of theory and quantitative tools. The essays underline the significance of economic policy having sound theoretical moorings. With an interesting mix of topics that have gained importance in the economics discourse in recent times alongside the more classical issues, the volume is divided into three broad themes: (i) general equilibrium, macroeconomics, and dynamic modelling in economics; (ii) applications of game theory to economics and information economics; and (iii) applications of theory to policymaking. The topics covered in Part I include Markov processes, general equilibrium under uncertainty, wealth effects and macroeconomics, aspects of economic growth, and applications of dynamic modelling to forest management and international trade. Part II analyses efficiency wages, collusion in oligopolies, cartels in international competition, price competition in a mixed duopoly, strategic aspects of liability rules, and liquidity preference. Part III provides a rigorous analysis of some socio-economic problems of India.

Emerging Technologies in Data Mining and Information Security Ajith Abraham 2018-12-12 This book features research papers presented at the International Conference on Emerging Technologies in Data Mining and Information Security (IEMIS 2018) held at the University of Engineering & Management, Kolkata, India, on February 23–25, 2018. It comprises high-quality research work by academicians and

industrial experts in the field of computing and communication, including full-length papers, research-in-progress papers, and case studies related to all the areas of data mining, machine learning, Internet of Things (IoT) and information security.

Math Unlimited R. Sujatha 2011-11-11 This collection of essays spans pure and applied mathematics. Readers interested in mathematical research and historical aspects of mathematics will appreciate the enlightening content of the material. Highlighting the pervasive nature of mathematics today in a host of different areas, the book also covers the spread of mathematical ideas and techniques in areas ranging from computer science to physics to biology.

Women's Economic Empowerment Kate Grantham 2021-03-05 This book investigates the barriers to women's economic empowerment in the Global South. Drawing on evidence from a wide range of countries, the book outlines important lessons and practical solutions for promoting gender equality. Despite global progress in closing gender gaps in education and health, women's economic empowerment has lagged behind, with little evidence that economic growth promotes gender equality. International Development Research Centre's (IDRC) Growth and Economic Opportunities for Women (GrOW) programme was set up to provide policy lessons, insights, and concrete solutions that could lead to advances in gender equality, particularly on the role of institutions and macroeconomic growth, barriers to labour market access for women, and the impact of women's care responsibilities. This book showcases rigorous and multi-disciplinary research emerging from this ground-breaking programme, covering topics such as the school-to-work transition, child marriage, unpaid domestic work and childcare, labour market segregation, and the power of social and cultural norms that prevent women from fully participating in better paid sectors of the economy. With a range of rich case studies from Burkina Faso, Democratic Republic of the Congo, Ethiopia, Ghana, India, Kenya, Nepal, Rwanda, Sri Lanka, Tanzania, and Uganda, this book is perfect for students, researchers, practitioners, and policymakers working on women's economic empowerment and gender equality in the Global South.

Thermal Degradation of Wood Components Francis C. Beall 1970

Proceedings of International Conference on Frontiers in Computing and Systems Debotosh Bhattacharjee 2020-11-23 This book gathers outstanding research papers presented at the International Conference on Frontiers in Computing and Systems (COMSYS 2020), held on January 13–15, 2019 at Jalpaiguri Government Engineering College, West Bengal, India and jointly organized by the Department of Computer Science & Engineering and Department of Electronics & Communication Engineering. The book presents the latest research and results in various fields of machine learning, computational intelligence, VLSI, networks and systems, computational biology, and security, making it a rich source of reference material for academia and industry alike.

Experimental and Applied Mechanics Tan Jin 2014-02-06 Collection of selected, peer reviewed papers from the 2014 International Conference on Experimental and Applied Mechanics (EAM 2014), January 20-21, 2014, Miami, USA. Volume is indexed by Thomson Reuters CPCI-S (WoS). The 65 papers are grouped as follows: Chapter 1: Materials Science and Processing, Chapter 2: Experimental and Applied Mechanics, Chapter 3: Information and Computer Technologies, Data Processing

ESSENTIALS OF BIOSTATISTICS INDRANIL SAHA 2016-06-22

Enabling the Internet of Things Massimo Alioto 2017-01-23 This book offers the first comprehensive view on integrated circuit and system design for the Internet of Things (IoT), and in particular for the tiny

nodes at its edge. The authors provide a fresh perspective on how the IoT will evolve based on recent and foreseeable trends in the semiconductor industry, highlighting the key challenges, as well as the opportunities for circuit and system innovation to address them. This book describes what the IoT really means from the design point of view, and how the constraints imposed by applications translate into integrated circuit requirements and design guidelines. Chapter contributions equally come from industry and academia. After providing a system perspective on IoT nodes, this book focuses on state-of-the-art design techniques for IoT applications, encompassing the fundamental sub-systems encountered in Systems on Chip for IoT: ultra-low power digital architectures and circuits low- and zero-leakage memories (including emerging technologies) circuits for hardware security and authentication System on Chip design methodologies on-chip power management and energy harvesting ultra-low power analog interfaces and analog-digital conversion short-range radios miniaturized battery technologies packaging and assembly of IoT integrated systems (on silicon and non-silicon substrates). As a common thread, all chapters conclude with a prospective view on the foreseeable evolution of the related technologies for IoT. The concepts developed throughout the book are exemplified by two IoT node system demonstrations from industry. The unique balance between breadth and depth of this book: enables expert readers quickly to develop an understanding of the specific challenges and state-of-the-art solutions for IoT, as well as their evolution in the foreseeable future provides non-experts with a comprehensive introduction to integrated circuit design for IoT, and serves as an excellent starting point for further learning, thanks to the broad coverage of topics and selected references makes it very well suited for practicing engineers and scientists working in the hardware and chip design for IoT, and as textbook for senior undergraduate, graduate and postgraduate students (familiar with analog and digital circuits).

CLT Handbook Erol Karacabeyli 2013-01

The Routledge Handbook of Anthropology and Reproduction Sallie Han 2021-11-09 The Routledge Handbook of Anthropology and Reproduction is a comprehensive overview of the topics, approaches, and trajectories in the anthropological study of human reproduction. The book brings together work from across the discipline of anthropology, with contributions by established and emerging scholars in archaeological, biological, linguistic, and sociocultural anthropology. Across these areas of research, consideration is given to the contexts, conditions, and contingencies that mark and shape the experiences of reproduction as always gendered, classed, and racialized. Over 39 chapters, a diverse range of international scholars cover topics including: Reproductive governance, stratification, justice, and freedom. Fertility and infertility. Technologies and imaginations. Queering reproduction. Pregnancy, childbirth, and reproductive loss. Postpartum and infant care. Care, kinship, and alloparenting. This is a valuable reference for scholars and upper-level students in anthropology and related disciplines associated with reproduction, including sociology, gender studies, science and technology studies, human development and family studies, global health, public health, medicine, medical humanities, and midwifery and nursing.

NAA-SR. U.S. Atomic Energy Commission

Land Acquisition and Compensation in India Sattwick Dey Biswas 2019-12-17 This book discusses development and land acquisitions in India and analyzes a conceptual framework based on “paradox of values” and “plural value of land.” The research links the issue of valuation to its roots in classic economic theory and to its individual perception. The project offers an insightful perspective on current challenges of urbanization and development in the Global South, where land use regimes are in a highly dynamic transition to allow for urban amenities, housing and industrial land. The author concludes with a

derived scheme or framework that addresses various potentials to better address values of land during land acquisition. It is an ideal book for anyone interested in land markets, land appraisal and land economics and land acquisition in the Global South.

Emerging Trends in Electrical, Communications, and Information Technologies T. Hitendra Sarma 2019-09-24 This book includes original, peer-reviewed research from the 3rd International Conference on Emerging Trends in Electrical, Communication and Information Technologies (ICECIT 2018), held at Srinivasa Ramanujan Institute of Technology, Ananthapuramu, Andhra Pradesh, India in December 2018. It covers the latest research trends and developments in the areas of Electrical Engineering, Electronic and Communication Engineering, and Computer Science and Information.

Emerging Technologies in Data Mining and Information Security Ajith Abraham 2018-09-01 The book features research papers presented at the International Conference on Emerging Technologies in Data Mining and Information Security (IEMIS 2018) held at the University of Engineering & Management, Kolkata, India, on February 23-25, 2018. It comprises high-quality research by academics and industrial experts in the field of computing and communication, including full-length papers, research-in-progress papers, case studies related to all the areas of data mining, machine learning, IoT and information security.

Wood Modification Technologies Dick Sandberg 2021-07-15 The market for durable products using modified wood has increased substantially during the last few years. This is partly because of the restriction on the use of toxic preservatives due to environmental concerns, and to lower maintenance cost and time. Furthermore, as sustainability becomes a greater concern, the environmental impact of construction and interior materials is factored in planning by considering the whole life cycle and embodied energy of the materials used. Wood is modified to improve its intrinsic properties, enhance the range of applications of timber, and to acquire the form and functionality desired by engineers without calling the environmental friendliness into question. Wood modification processes are at various stages of development, and the challenges faced in scaling up to industrial applications differ. The aim of this book is to put together the key elements of the changes of wood constituents and the related changes in wood properties of modified wood. Further, a selection of the principal technologies implemented in wood modification are presented. This work is intended for researchers, professionals of timber construction, as well as students studying the science of materials, civil engineering and architecture. This work is not exhaustive, but intends to deliver an outline of the scientific disciplines necessary to apprehend the technologies of wood modification and its behavior during treatment, as well as during its use.

The Persistence of Technology Stefan Krebs 2021-09-30 Repair, reuse and disposal are closely interlinked phenomena related to the service lives and persistence of technologies. When technical artefacts become old and worn out, decisions have to be taken: is it necessary, worthwhile or even possible to maintain and repair, reuse or dismantle them - or must they be discarded? These decisions depend on factors such as the availability of second-hand markets, repair infrastructures and dismantling or disposal facilities. In telling the stories of China's power grid, Canadian telephones, German automobiles and India's shipbreaking business, among others, the contributions in this volume highlight the persistence of technologies and show that maintenance and repair are not obsolete in modern industries and consumer societies.

The Economics Book DK 2014-12-19 All your complicated economic questions and theories explained by world experts. Economics is a broad topic, and your knowledge might be limited if you're not an economist by profession -- until now! The Economics Book is your jargon-free, visual guide to

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understanding the production and distribution of wealth. Using a combination of authoritative, clear text, and bold graphics, this encyclopedia explores and explains big questions and issues that affect us all. Everything from taxation, to recession to the housing market and much more! By following an innovative visual approach, *The Economics Book* demystifies and untangles complicated theories. Make sense of abstract concepts through colorful graphics, fun facts, and step-by-step flow diagrams. Satisfy Your Hunger for Knowledge Dive deeper into the history of economics with this page-turning book! From the ancient Greeks to today, you'll discover over 100 key ideas from the world's greatest theorists like Thomas Malthus, John Maynard Keynes, and Milton Friedman. Fortunately, you don't need an economics degree to gain this type of understanding. *The Economics Book* is your accessible guide to tons of invaluable economic knowledge and learning how the economy shapes our world! This book will be your guide through the history of economics: - Let the Trading Begin 400 BCE - 1770 CE - The Age of Reason 1770 - 1820 - Industrial and Economic Revolutions 1820 - 1929 - War and Depressions: 1929 - 1945 - Post-War Economics 1945 - 1970 - Contemporary Economics 1970 - Present The Series Simply Explained With over 7 million copies sold worldwide to date, *The Economics Book* is part of the award-winning Big Ideas Simply Explained series from DK Books. It uses innovative graphics along with engaging writing to make complex subjects easier to understand.

Wireless World in 2050 and Beyond: A Window into the Future! Ramjee Prasad 2016-06-29 This book gathers visionary ideas from leading academics and scientists to predict the future of wireless communication and enabling technologies in 2050 and beyond. The content combines a wealth of illustrations, tables, business models, and novel approaches to the evolution of wireless communication. The book also provides glimpses into the future of emerging technologies, end-to-end systems, and entrepreneurial and business models, broadening readers' understanding of potential future advances in the field and their influence on society at large

Wood is Good Krishna K. Pandey 2017-01-20 This book is a compilation of selected papers presented in the International Conference on the theme 'Wood is Good: Current Trends and Future Prospects in Wood'. The contents of the book deal with recent innovations, trends and challenges in wood science and are grouped in five distinct sections. They cover a wide range of topics like wood variability, processing and utilization, wood protection, wood-based composites, wood energy and the role of wood in mitigating climate change. With the ever increasing human population and growing demand for wood, this book offers valuable insights for better understanding and efficient utilization of this wonderful gift of nature. This book will be useful to researchers, professionals, and policy makers involved in forestry and wood related areas.

Richly Parameterized Linear Models James S. Hodges 2016-04-19 A First Step toward a Unified Theory of Richly Parameterized Linear Models Using mixed linear models to analyze data often leads to results that are mysterious, inconvenient, or wrong. Further compounding the problem, statisticians lack a cohesive resource to acquire a systematic, theory-based understanding of models with random effects. *Richly Parameterized Linear Models: Additive, Time Series, and Spatial Models Using Random Effects* takes a first step in developing a full theory of richly parameterized models, which would allow statisticians to better understand their analysis results. The author examines what is known and unknown about mixed linear models and identifies research opportunities. The first two parts of the book cover an existing syntax for unifying models with random effects. The text explains how richly parameterized models can be expressed as mixed linear models and analyzed using conventional and Bayesian methods. In the last two parts, the author discusses oddities that can arise when analyzing data using these models. He presents ways to detect problems and, when possible, shows how to mitigate or avoid them. The book adapts ideas from linear model theory and then goes beyond that theory by examining the information in

the data about the mixed linear model's covariance matrices. Each chapter ends with two sets of exercises. Conventional problems encourage readers to practice with the algebraic methods and open questions motivate readers to research further. Supporting materials, including datasets for most of the examples analyzed, are available on the author's website.

Molecular Signaling in Spermatogenesis and Male Infertility Taylor & Francis Group 2021-06-30 Spermatogenesis involves the coordination of a number of signaling pathways, which culminate into production of sperm. Its failure results in male factor infertility, which can be due to hormonal, environmental, genetic or other unknown factors. This book includes chapters on most of the signaling pathways known to contribute to spermatogenesis. Latest research in germ cell signaling like the role of small RNAs in spermatogenesis is also discussed. This book aims to serve as a reference for both clinicians and researchers, explaining possible causes of infertility and exploring various treatment methods for management through the basic understanding of the role of molecular signaling. Key Features Discusses the signaling pathways that contribute to successful spermatogenesis Covers comprehensive information about Spermatogenesis at one place Explores the vital aspects of male fertility and infertility Explains the epigenetic regulation of germ cell development and fertility Highlights the translational opportunities in molecular signaling in testis

Pattern Recognition and Machine Intelligence Sergei O. Kuznetsov 2011-06-14 This book constitutes the refereed proceedings of the 4th International Conference on Pattern Recognition and Machine Intelligence, PReMI 2011, held in Moscow, Russia in June/July 2011. The 65 revised papers presented together with 5 invited talks were carefully reviewed and selected from 140 submissions. The papers are organized in topical sections on pattern recognition and machine learning; image analysis; image and video information retrieval; natural language processing and text and data mining; watermarking, steganography and biometrics; soft computing and applications; clustering and network analysis; bio and chemo analysis; and document image processing.

Introduction to Polymer Viscoelasticity Montgomery T. Shaw 2005-09-02 A revised molecular approach to a classic on viscoelastic behavior Because viscoelasticity affects the properties, appearance, processing, and performance of polymers such as rubber, plastic, and adhesives, a proper utilization of such polymers requires a clear understanding of viscoelastic behavior. Now in its third edition, Introduction to Polymer Viscoelasticity remains a classic in the literature of molecular viscoelasticity, bridging the gap between primers on polymer science and advanced research-level monographs. Assuming a molecular, rather than a mechanical approach, the text provides a strong grounding in the fundamental concepts, detailed derivations, and particular attention to assumptions, simplifications, and limitations. This Third Edition has been entirely revised and updated to reflect recent developments in the field. New chapters include: * Phenomenological Treatment of Viscoelasticity * Viscoelastic Models * Time-Temperature Correspondence * Transitions and Relaxation in Polymers * Elasticity of Rubbery Networks * Dielectric and NMR Methods With detailed explanations, corresponding equations, and experimental methods, supported by real-life applications (as well as the inclusion of a CD-ROM with data to support the exercises), this Third Edition provides today's students and professionals with the tools they need to create polymers with more desirable qualities than ever.

Women and Labour in Late Colonial India Samita Sen 1999-05-06 Samita Sen's history of labouring women in Calcutta in the late nineteenth and early twentieth centuries considers how social constructions of gender shaped their lives. Dr Sen demonstrates how - in contrast to the experience of their male counterparts - the long-term trends in the Indian economy devalued women's labour, establishing patterns of urban migration and changing gender equations within the family. She relates

these trends to the spread of dowry, enforced widowhood and child marriage. The book provides insight into the lives of poor urban women who were often perceived as prostitutes or social pariahs. Even trade unions refused to address their problems and they remained on the margins of organised political protest. The study will make a significant contribution to the understanding of the social and economic history of colonial India and to notions of gender construction.

Biohydrogen Production Debabrata Das 2014-02-21 *Biohydrogen Production: Fundamentals and Technology Advances* covers the fundamentals of biohydrogen production technology, including microbiology, biochemistry, feedstock requirements, and molecular biology of the biological hydrogen production processes. It also gives insight into scale-up problems and limitations. In addition, the book discusses mathematical modeling of the various processes involved in biohydrogen production and the software required to model the processes. The book summarizes research advances that have been made in this field and discusses bottlenecks of the various processes, which presently limit the commercialization of this technology. The authors also focus on the process economy, policy, and environmental impact of this technology, since the future of biohydrogen production depends not only on research advances, but also on economic considerations (the cost of fossil fuels), social espousal, and the development of H₂ energy systems. The book describes the fundamentals of this technology interwoven with more advanced research findings. Further reading is suggested at the end of each chapter. Since the beauty of any innovation is its applicability, socioeconomic impact, and cost energy analysis, the book examines each of these points to give you a holistic picture of this technology. Illustrative diagrams, flow charts, and comprehensive tables detailing the scientific advancements provide an opportunity to understand the process comprehensively and meticulously. Written in a lucid style, the book supplies a complete knowledge bank about biohydrogen production processes.

Advances in Communication, Devices and Networking Rabindranath Bera 2019-02-15 The book covers recent trends in the field of devices, wireless communication and networking. It presents the outcomes of the International Conference in Communication, Devices and Networking (ICCDN 2018), which was organized by the Department of Electronics and Communication Engineering, Sikkim Manipal Institute of Technology, Sikkim, India on 2–3 June, 2018. Gathering cutting-edge research papers prepared by researchers, engineers and industry professionals, it will help young and experienced scientists and developers alike to explore new perspectives, and offer them inspirations on addressing real-world problems in the field of electronics, communication, devices and networking.

Thermal Degradation of Fire-retardant-treated Plywood Jerrold E. Winandy 1991

Anthropogeomorphology of Bhagirathi-Hooghly River System in India Balai Chandra Das 2020-10-27 The Bhagirathi-Hooghly Basin in India is one of the most densely populated regions in the world and is undergoing rapid transformation of its natural landscape induced by human interventions, such as mushrooming of dams and barrages, deforestation, and urbanization. Human activities and interventions on basin landforms and the processes that shape those landforms have accelerated at an alarming rate. This book uses spatio-temporal analysis to understand the major anthropogenic signatures on land use and land cover changes and the impact these activities have on the landforms and processes of the Bhagirathi-Hooghly River and its sub-basins. It answers the what, where, why, and how of the anthropogenic signatures involved. Recent case studies on the impact of anthropogenic signatures on fluvial forms and processes make this book a useful resource for students and researchers in the earth sciences, local governments, urban planners, and all concerned with rural developments. Features: Explores for the first time the new concept of anthropogeomorphology for the river basin—an emerging field Analyses the impact of anthropogenic activities, especially the construction of dams and reservoirs,

and urbanization on major fluvial landscapes using advanced geospatial modelling techniques Investigates human interference in river systems, their effects on the dynamics of the river, and the livelihoods of the people residing along the river Addresses issues related to geology, geomorphology, geography, planning, land use, and land management areas Fills the need for data-driven governance and policy decisions for the future of urban-industrial growth in India.

Robotic Computing on FPGAs Shaoshan Liu 2021-06-30 This book provides a thorough overview of the state-of-the-art field-programmable gate array (FPGA)-based robotic computing accelerator designs and summarizes their adopted optimized techniques. This book consists of ten chapters, delving into the details of how FPGAs have been utilized in robotic perception, localization, planning, and multi-robot collaboration tasks. In addition to individual robotic tasks, this book provides detailed descriptions of how FPGAs have been used in robotic products, including commercial autonomous vehicles and space exploration robots.

The Physics of Semiconductor Devices R. K. Sharma 2019-01-31 This book disseminates the current knowledge of semiconductor physics and its applications across the scientific community. It is based on a biennial workshop that provides the participating research groups with a stimulating platform for interaction and collaboration with colleagues from the same scientific community. The book discusses the latest developments in the field of III-nitrides; materials & devices, compound semiconductors, VLSI technology, optoelectronics, sensors, photovoltaics, crystal growth, epitaxy and characterization, graphene and other 2D materials and organic semiconductors.

Forest Biotechnology 1991

IOT Technical Challenges and Solutions Arpan Pal 2016-11-30 This practical resource highlights the systematic problems Internet of Things is encountering on its journey to mass adoption. Professionals are offered solutions to key questions about IoT systems today, including potential network scalability issues, storage, and computing. Security and privacy are explored and the value of sensor-collected data is explained. Costs of deployment and transformation are covered and the model-driven deployment of IoT systems is explored. Presenting a pragmatic real-world approach to IoT, this book covers technology components such as communication, computing, storage and mobility, as well as business insights and social implications.

Nearrings, Nearfields And Related Topics Panackal Harikrishnan 2016-11-28 Recent developments in various algebraic structures and the applications of those in different areas play an important role in Science and Technology. One of the best tools to study the non-linear algebraic systems is the theory of Near-rings. The forward note by G