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Monte Carlo Techniques in Radiation Therapy - Joao Seco 2013-03-25

Modern cancer treatment relies on Monte Carlo simulations to help radiotherapists and clinical physicists better understand and compute radiation dose from imaging devices as well as exploit four-dimensional imaging data. With Monte Carlo-based treatment planning tools now available from commercial vendors, a complete transition to Monte Carlo-based dose calculation methods in radiotherapy could likely take place in the next decade. Monte Carlo Techniques in Radiation Therapy explores the use of Monte Carlo methods for modeling various features of internal and external radiation sources, including light ion beams. The book—the first of its kind—addresses applications of the Monte Carlo particle transport simulation technique in radiation therapy, mainly focusing on external beam radiotherapy and brachytherapy. It presents the mathematical and technical aspects of the methods in particle transport simulations. The book also discusses the modeling of medical linacs and other irradiation devices; issues specific to electron, photon, and proton ion beams and brachytherapy; and the optimization of treatment planning, radiation dosimetry, and quality assurance. Useful to clinical physicists, graduate students, and researchers, this book provides a detailed, state-of-the-art guide to the fundamentals, application, and customization of Monte Carlo techniques in radiotherapy. Through real-world examples, it illustrates the use of Monte Carlo modeling and simulations in dose calculation, beam delivery, kilovoltage and megavoltage imaging, proton radiography, device design, and much more.

Next Generation Smart Grids: Modeling, Control and Optimization - Surender Reddy Salkuti 2022-02-01

This book is a collection of chapters describing the advanced and future aspects of smart grid technology. The book emphasizes technical issues, theoretical background and practical applications that drive postgraduates, researchers and practicing engineers with the right advanced skills, vision and knowledge who will further be capable of leading in teams involved in the modelling, control, design, and optimization of the future smart grids. This feature strengthens the benefits of the book for the readers who will gain an insightful understanding of future smart grid challenges including: (i) the formulation of decision-making models, (ii) the familiarization with efficient solution algorithms for such models and (iii) insights into these problems through the detailed analysis of numerous illustrative examples. Further the chapters in this book provide comprehensive coverage of modelling, control and optimization of smart grid which are quite different from most technical publications.

Recent Trends in Multi-user MIMO Communications - Maha Ben Zid 2013-12-04

This book emphasis on multi-user MIMO communication. It covers a collection of the major topics and issues in multi-user MIMO systems. Recent Trends in Multi-user MIMO Communications provides a tutorial overview of the latest technologies and research keys related to multi-user communication. This book is composed of seven chapters, each written by a different set of authors. Features include: Fundamentals of multi-user MIMO communication, Random Beamforming in multi-user MIMO systems, LTE and LTE-Advanced framework, Interference cancellation in multi-user MIMO systems, Incorporation of multi-user capabilities in IEEE 802.11n/ac for WLAN systems, Physical layer security for multi-user MIMO communication, User selection based error probability of MIMO detector in multi-user MIMO systems.

Smart Grid Standards - Takuro Sato 2015-04-20

A fully comprehensive introduction to smart grid standards and their applications for developers, consumers and service providers. The critical role of standards for smart grid has already been realized by world-wide governments and industrial organizations. There are hundreds of standards for Smart Grid which have been developed in parallel by different organizations. It is therefore necessary to arrange those standards in such a way that it is easier for readers to easily understand and select a particular standard according to their requirements without going into the depth of each standard, which often spans from hundreds to thousands of pages. The book will allow people in the smart grid areas and in the related industries to easily understand the fundamental standards of smart grid, and quickly find the building-block standards they need from hundreds of standards for implementing a smart grid system. The authors highlight the most advanced works and efforts now under way to realize an integrated and interoperable smart grid, such as the “NIST Framework and Roadmap for Smart Grid Interoperability Standards Release 2.0”, the “IEC Smart Grid Standardization Roadmap”, the ISO/IEC’s “Smart Grid Standards for Residential Customers”, the ZigBee/HomePlug’s “Smart Energy Profile Specification 2.0”, IEEE’s P2030 “Draft Guide for Smart Grid Interoperability of Energy Technology and Information Technology Operation with the Electric Power System (EPS), and End-Use Applications and Loads”, and the latest joint research project results between the world’s two largest economies, US and China. The book enables readers to fully understand the latest achievements and ongoing technical works of smart grid standards, and assist industry utilities, vendors, academia, regulators, and other smart grid stakeholders in future decision making. The book begins with an overview of the smart grid, and introduces the opportunities in both developed and developing countries. It then examines the standards for power grid domain of the smart grid, including standards for blackout prevention and energy management, smart transmission, advanced distribution management and automation, smart substation automation, and condition monitoring. Communication and security standards as a whole are the backbone of smart grid and their standards, including those for wired and wireless communications, are then assessed. Finally the authors consider the standards and on-going work and efforts for interoperability and integration between different standards and networks, including the latest joint research effort between the world’s two largest economies, US and China. A fully comprehensive introduction to smart grid standards and their applications for developers, consumers and service providers. Covers all up-to-date standards of smart grid, including the key standards from NIST, IEC, ISO ZigBee, IEEE, HomePlug, SAE, and other international and regional standardization organizations. The Appendix summarizes all of the standards mentioned in the book. Presents standards for renewable energy and smart generation, covering wind energy, solar voltaic, fuel cells, pumped storage, distributed generation, and nuclear generation standards. Standards for other alternative sources of energy such as geothermal energy, and bioenergy are briefly introduced. Introduces the standards for smart storage and plug-in electric vehicles, including standards for distributed energy resources (DER), electric storage, and E-mobility/plug-in vehicles. The book is written in an accessible style, ideal as an introduction to the topic, yet contains sufficient detail and research to appeal to the more advanced and specialist reader.

Performance and Control of Next-generation Communications

Networks - 2003

Physically Unclonable Functions - Basel Halak 2018-04-18

This book discusses the design principles of physically unclonable functions (PUFs) and how these can be employed in hardware-based security applications, in particular, the book provides readers with a comprehensive overview of security threats and existing countermeasures. This book has many features that make it a unique source for students, engineers and educators, including more than 80 problems and worked exercises, in addition to, approximately 200 references, which give extensive direction for further reading.

Radiation Health and Safety - United States. Congress. Senate. Committee on Commerce, Science, and Transportation 1977

Index to Theses Accepted for Higher Degrees by the Universities of Great Britain and Ireland and the Council for National Academic Awards - 1978

Instructor's Manual to Accompany Computer Communications and Networking Technologies - 2002

Optical Technologies for Communication Satellite Applications - K. B. Bhasin 1986

Telemedicine Technologies - Bernard Fong 2020-08-10

Since the launch of *Telemedicine Technologies* (Wiley, 2010), the technologies surrounding telemedicine have changed immeasurably, particularly with the emerging trends of Internet-of-Things (IoT), digital/e-Health, and wearable, smart and assistive technologies. This second edition overhauls and expands on the original text to reflect the technical advances of the last decade. It covers applications from traditional healthcare services to remote patient monitoring and recovery, to alternative medicine and general health assessment for maintaining optimal health. This welcome update brings together a broad range of topics demonstrating how information and wireless technologies can be used in healthcare.

5G Physical Layer Technologies - Mosa Ali Abu-Rgheff 2019-11-04

Written in a clear and concise manner, this book presents readers with an in-depth discussion of the 5G technologies that will help move society beyond its current capabilities. It perfectly illustrates how the technology itself will benefit both individual consumers and industry as the world heads towards a more connected state of being. Every technological application presented is modeled in a schematic diagram and is considered in depth through mathematical analysis and performance assessment. Furthermore, published simulation data and measurements are checked. Each chapter of *5G Physical Layer Technologies* contains texts, mathematical analysis, and applications supported by figures, graphs, data tables, appendices, and a list of up to date references, along with an executive summary of the key issues. Topics covered include: the evolution of wireless communications; full duplex communications and full dimension MIMO technologies; network virtualization and wireless energy harvesting; Internet of Things and smart cities; and millimeter wave massive MIMO technology. Additional chapters look at millimeter wave propagation losses caused by atmospheric gases, rain, snow, building materials and vegetation; wireless channel modeling and array mutual coupling; massive array configurations and 3D channel modeling; massive MIMO channel estimation schemes and channel reciprocity; 3D beamforming technologies; and linear precoding strategies for multiuser massive MIMO systems. Other features include: In depth coverage of a hot topic soon to become the backbone of IoT connecting devices, machines, and vehicles Addresses the need for green communications for the 21st century Provides a comprehensive support for the advanced mathematics exploited in the book by including appendices and worked examples Contributions from the EU research programmes, the International telecommunications companies, and the International standards institutions (ITU; 3GPP; ETSI) are covered in depth Includes numerous tables and illustrations to aid the reader Fills the gap in the current literature where technologies are not explained in depth or omitted altogether *5G Physical Layer*

Technologies is an essential resource for undergraduate and postgraduate courses on wireless communications and technology. It is also an excellent source of information for design engineers, research and development engineers, the private-public research community, university research academics, undergraduate and postgraduate students, technical managers, service providers, and all professionals involved in the communications and technology industry.

Digital Advances in Medicine, E-Health, and Communication Technologies - Rodrigues, Joel J.P.C. 2013-01-31

Digital Advances in Medicine, E-Health, and Communication Technologies explores the developments and trends in medical informatics and its approaches toward telemedicine and e-health applications. This comprehensive collection of research brings together academia and industry by highlighting recent advances in electronic health, medical communications and applications for e-health and medicine.

21st Century Nanoscience - Klaus D. Sattler 2021-11-05

This *21st Century Nanoscience Handbook* will be the most comprehensive, up-to-date large reference work for the field of nanoscience. *Handbook of Nanophysics*, by the same editor, published in the fall of 2010, was embraced as the first comprehensive reference to consider both fundamental and applied aspects of nanophysics. This follow-up project has been conceived as a necessary expansion and full update that considers the significant advances made in the field since 2010. It goes well beyond the physics as warranted by recent developments in the field. Key Features: Provides the most comprehensive, up-to-date large reference work for the field. Chapters written by international experts in the field. Emphasises presentation and real results and applications. This handbook distinguishes itself from other works by its breadth of coverage, readability and timely topics. The intended readership is very broad, from students and instructors to engineers, physicists, chemists, biologists, biomedical researchers, industry professionals, governmental scientists, and others whose work is impacted by nanotechnology. It will be an indispensable resource in academic, government, and industry libraries worldwide. The fields impacted by nanoscience extend from materials science and engineering to biotechnology, biomedical engineering, medicine, electrical engineering, pharmaceutical science, computer technology, aerospace engineering, mechanical engineering, food science, and beyond.

Wired/Wireless Internet Communications - Lefteris Mamatras 2016-05-23

This book constitutes the refereed proceedings of the 14th IFIP WG 6.2 International Conference on Wired/Wireless Internet Communications, WWIC 2016, held in Thessaloniki, Greece, in May 2016. The 27 papers presented in this volume were carefully reviewed and selected from 54 submissions. The topics addressed are: wireless technologies and systems, middleboxes and addressing, energy efficiency, network applications and tools, network protocols, network modeling, wireless sensor networks, and resource management and optimization.

Novel Applications of the UWB Technologies - Boris Lembrikov 2011-08-01

Ultra wideband (UWB) communication systems are characterized by high data rates, low cost, multipath immunity, and low power transmission. In 2002, the Federal Communication Commission (FCC) legalized low power UWB emission between 3.1 GHz and 10.6 GHz for indoor communication devices stimulating rapid development of UWB technologies and applications. The proposed book *Novel Applications of the UWB Technologies* consists of 5 parts and 20 chapters concerning the general problems of UWB communication systems, and novel UWB applications in personal area networks (PANs), medicine, radars and localization systems. The book will be interesting for engineers and researchers occupied in the field of UWB technology.

New Horizons in Mobile and Wireless Communications, Volume 2: Networks, Services and Applications - Ramjee Prasad 2009

Based on cutting-edge research projects in the field, this book (part of a comprehensive 4-volume series) provides the latest details and covers the most impactful aspects of mobile, wireless, and broadband communications development. These books

present key systems and enabling technologies in a clear and accessible manner, offering you a detailed roadmap the future evolution of next generation communications. Other volumes cover Networks, Services and Applications; Reconfigurability; and Ad Hoc Networks.

Handbook of Information Security, Key Concepts, Infrastructure, Standards, and Protocols - Hossein Bidgoli 2006-03-20

The Handbook of Information Security is a definitive 3-volume handbook that offers coverage of both established and cutting-edge theories and developments on information and computer security. The text contains 180 articles from over 200 leading experts, providing the benchmark resource for information security, network security, information privacy, and information warfare.

Telemedicine Technologies - D. Jude Hemanth 2019-05-04

Telemedicine Technologies: Big Data, Deep Learning, Robotics, Mobile and Remote Applications for Global Healthcare illustrates the innovative concepts, methodologies and frameworks that will increase the feasibility of the existing telemedicine system. The book also focuses on showcasing prototypes of remote healthcare systems, thus emphasizing the data processing side that is often recognized as the backbone of any telemedicine system.

Illustrates the innovative concepts, methodologies and frameworks that will increase the feasibility of the existing telemedicine system Focuses on showcasing prototypes of remote healthcare systems

Radiation Tolerant Electronics - Paul Leroux 2019-08-26

Research on radiation-tolerant electronics has increased rapidly over the past few years, resulting in many interesting approaches to modeling radiation effects and designing radiation-hardened integrated circuits and embedded systems. This research is strongly driven by the growing need for radiation-hardened electronics for space applications, high-energy physics experiments such as those on the Large Hadron Collider at CERN, and many terrestrial nuclear applications including nuclear energy and nuclear safety. With the progressive scaling of integrated circuit technologies and the growing complexity of electronic systems, their susceptibility to ionizing radiation has raised many exciting challenges, which are expected to drive research in the coming decade. In this book we highlight recent breakthroughs in the study of radiation effects in advanced semiconductor devices, as well as in high-performance analog, mixed signal, RF, and digital integrated circuits. We also focus on advances in embedded radiation hardening in both FPGA and microcontroller systems and apply radiation-hardened embedded systems for cryptography and image processing, targeting space applications.

Fundamentals of IoT Communication Technologies - Rolando Herrero 2021-06-23

This textbook explores all of the protocols and technologies essential to IoT communication mechanisms. Geared towards an upper-undergraduate or graduate level class, the book is presented from a perspective of the standard layered architecture with special focus on protocol interaction and functionality. The IoT protocols are presented and classified based on physical, link, network, transport and session/application layer functionality. The author also lets readers understand the impact of the IoT mechanisms on network and device performance with special emphasis on power consumption and computational complexity. Use cases – provided throughout – provide examples of IoT protocol stacks in action. The book is based on the author's popular class "Fundamentals of IoT" at Northeastern University. The book includes examples throughout and slides for classroom use. Also included is a 'hands-on' section where the topics discussed as theoretical content are built as stacks in the context of an IoT network emulator so readers can experiment.

21st Century Nanoscience – A Handbook - Klaus D. Sattler 2019-11-21

This up-to-date reference is the most comprehensive summary of the field of nanoscience and its applications. It begins with fundamental properties at the nanoscale and then goes well beyond into the practical aspects of the design, synthesis, and use of nanomaterials in various industries. It emphasizes the vast strides made in the field over the past decade – the chapters focus on new, promising directions as well as emerging theoretical and experimental methods. The contents incorporate experimental

data and graphs where appropriate, as well as supporting tables and figures with a tutorial approach.

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.

Radiation Dose from Multidetector CT - Denis Tack 2012-06-05

Computed tomography (CT) is a powerful technique providing precise and confident diagnoses. The burgeoning use of CT has resulted in an exponential increase in collective radiation dose to the population. Despite investigations supporting the use of lower radiation doses, surveys highlight the lack of proper understanding of CT parameters that affect radiation dose. Dynamic advances in CT technology also make it important to explain the latest dose-saving strategies in an easy-to-comprehend manner. This book aims to review all aspects of the radiation dose from CT and to provide simple rules and tricks for radiologists and radiographers that will assist in the appropriate use of CT technique. The second edition includes a number of new chapters on the most up-to-date strategies and technologies for radiation dose reduction while updating the outstanding contents of the first edition. Vendor perspectives are included, and an online image gallery will also be available to readers.

Corporate Technology Directory - 1988

This multi-volume directory which lists more than 40,000 companies is indexed by company name, geographic area, SIC code, and non-U.S. parent companies. Profiles are provided for each company listed, and company rankings given under each industry.

Scientific and Technical Aerospace Reports - 1995

RF Analog Impairments Modeling for Communication Systems Simulation - Lydi Smaini 2012-10-04

With the growing complexity of personal mobile communication systems demanding higher data-rates and high levels of integration using low-cost CMOS technology, overall system performance has become more sensitive to RF analog front-end impairments. Designing integrated transceivers requires a thorough understanding of the whole transceiver chain including RF analog front-end and digital baseband. Communication system engineers have to include RF analog imperfections in their simulation benches in order to study and quantify their impact on the system performance. Here the author explores key RF analog impairments in a transceiver and demonstrates how to model their impact from a communication system design view-point. He discusses the design aspects of the front end of transceivers (both receivers and transmitters) and provides the reader with a way to optimize a complex mixed-signal platform by taking into account the characteristics of the RF/analog front-end. Key features of this book include: Practical examples illustrated by system simulation results based on WiFi and mobile WiMAX OFDM transceivers An overview of the digital estimation and compensation of the RF analog impairments such as power amplifier distortion, quadrature imbalance, and carrier and sampling frequency offsets An exposition of the challenges involved in the design of both RF analog circuits and DSP communication circuits in deep submicron CMOS technology MATLAB® codes for RF analog impairments models hosted on the companion website Uniquely the book bridges the gap between RFIC design specification needs and communication systems simulation, offering readers RF analog impairments modeling knowledge and a comprehensive approach to unifying theory and practice in system modelling. It is of great value to communication systems and DSP engineers and graduate students who design communication processing engines, RF/analog systems and IC design engineers involved in the design of communication platforms.

Oncoplastic and Reconstructive Breast Surgery - Cicero Urban 2019-06-08

This book demonstrates why oncoplastic and reconstructive

surgery represents such an exciting tool for surgeons who undertake breast surgery. Fundamental principles and basic concepts are clearly outlined, and numerous techniques are presented by acknowledged experts from across the world. The emphasis is very much on a "how to do" approach, with detailed guidance and advice on the various techniques. The informative text is supported by a wealth of color illustrations, and accompanying videos of procedures can be accessed via the publisher's website. This second edition of *Oncoplastic and Reconstructive Breast Surgery* has been completely revised and updated. More than 25 additional chapters have been included, and new videos of surgeries made available, with the aim of making this already very successful book truly comprehensive, and the most complete reference on the subject – a true classic. The new edition entails close collaboration between some of the most important centers for breast cancer treatment and research worldwide. It will be an ideal resource for surgical fellows and specialists wishing to learn about indications and the selection of patients, to master technical skills, and to manage complications effectively.

Reference Data for Engineers - Mac E. Van Valkenburg
2001-10-19

Reference Data for Engineers is the most respected, reliable, and indispensable reference tool for technical professionals around the globe. Written by professionals for professionals, this book is a complete reference for engineers, covering a broad range of topics. It is the combined effort of 96 engineers, scientists, educators, and other recognized specialists in the fields of electronics, radio, computer, and communications technology. By providing an abundance of information on essential, need-to-know topics without heavy emphasis on complicated mathematics, Reference Data for Engineers is an absolute "must-have" for every engineer who requires comprehensive electrical, electronics, and communications data at his or her fingertips. Featured in the Ninth Edition is updated coverage on intellectual property and patents, probability and design, antennas, power electronics, rectifiers, power supplies, and properties of materials. Useful information on units, constants and conversion factors, active filter design, antennas, integrated circuits, surface acoustic wave design, and digital signal processing is also included. The Ninth Edition also offers new knowledge in the fields of satellite technology, space communication, microwave science, telecommunication, global positioning systems, frequency data, and radar. * Widely acclaimed as the most practical reference ever published for a wide range of electronics and computer professionals, from technicians through post-graduate engineers. * Provides a great way to learn or review the basics of various technologies, with a minimum of tables, equations, and other heavy math.

Solar Energy Update - 1984

Wireless Communication with Artificial Intelligence - Anuj Singal
2022-09-16

This reference text discusses advances in wireless communication, design challenges, and future research directions to design reliable wireless communication. The text discusses emerging technologies including wireless sensor networks, Internet of Things (IoT), cloud computing, mm-Wave, Massive MIMO, cognitive radios (CR), visible light communication (VLC), wireless optical communication, signal processing, and channel modeling. The text covers artificial intelligence-based applications in wireless communication, machine learning techniques and challenges in wireless sensor networks, and deep learning for channel and bandwidth estimation during optical wireless communication. The text will be useful for senior undergraduate, graduate students, and professionals in the fields of electrical engineering, and electronics and communication engineering.

Proceedings of Sixth International Congress on Information and Communication Technology - Xin-She Yang 2021-10-26

This book gathers selected high-quality research papers presented at the Sixth International Congress on Information and Communication Technology, held at Brunel University, London, on February 25–26, 2021. It discusses emerging topics pertaining to information and communication technology (ICT) for managerial applications, e-governance, e-agriculture, e-education and computing technologies, the Internet of Things (IoT) and e-mining.

Written by respected experts and researchers working on ICT, the book offers a valuable asset for young researchers involved in advanced studies. The book is presented in four volumes.

6th European Conference of the International Federation for Medical and Biological Engineering - Igor Lacković
2014-09-02

This volume presents the Proceedings of the 6th European Conference of the International Federation for Medical and Biological Engineering (MBEC2014), held in Dubrovnik September 7 – 11, 2014. The general theme of MBEC 2014 is "Towards new horizons in biomedical engineering" The scientific discussions in these conference proceedings include the following themes: - Biomedical Signal Processing - Biomedical Imaging and Image Processing - Biosensors and Bioinstrumentation - Bio-Micro/Nano Technologies - Biomaterials - Biomechanics, Robotics and Minimally Invasive Surgery - Cardiovascular, Respiratory and Endocrine Systems Engineering - Neural and Rehabilitation Engineering - Molecular, Cellular and Tissue Engineering - Bioinformatics and Computational Biology - Clinical Engineering and Health Technology Assessment - Health Informatics, E-Health and Telemedicine - Biomedical Engineering Education
Handbook on Advancements in Smart Antenna Technologies for Wireless Networks - Sun, Chen 2008-07-31

Provides information on smart antenna technologies featuring contributions with in-depth descriptions of terminologies, concepts, methods, and applications related to smart antennas in various wireless systems.

Technologies for the Wireless Future - Rahim Tafazolli
2006-05-01

This fully updated second volume of the highly successful WWRF Book of Visions is a unique and timely book, presenting up-to-the-minute ideas and trends in mobile communications. This is a comprehensive single point of reference, focusing on the specifications and requirements of 4G and identifying potential business models, the research areas and required spectrum and enabling technologies. Comprising material from White Papers edited within the working expert groups as well as those from the Vision Committee of WWRF, a top-down approach has been adopted starting from perceived users requirements and their expectations in the Future Wireless World.

Nurse Anesthesia - E-Book - Sass Elisha 2022-01-23

Gain the knowledge and skills you need for clinical anesthesia practice! Written specifically for nurse anesthetists, *Nurse Anesthesia, 7th Edition* provides a solid foundation in scientific principles and evidence-based practice. Coverage includes a review of pharmacology, pharmacokinetics and pharmacodynamics, drug receptor concepts, intravenous agents, neuromuscular blocking agents, and more, followed by a discussion of anesthesia equipment and clinical monitoring, preoperative preparation of the patient, and the use of anesthesia for a variety of surgical procedures. From a team of expert authors led by Sass Elisha, Jeremy S. Heiner, and John J. Nagelhout, this text helps you prepare for certification and also provides a key reference for CRNAs to use in daily practice. Updated information on pharmacology includes pharmacokinetics, drug delivery systems, opiate antagonists, and key induction drugs. Interactions with other anesthetic agents are integrated where appropriate, along with other important considerations. Overview of basic science provides a thorough basis for understanding nurse anesthesia. Information on Joint Commission (TJC) standards covers monitoring and administering moderate sedation/analgesia, also adding coverage of patient safety, monitoring, and pharmacology. More than 800 full-color photos and illustrations depict anatomy, procedures, concepts, and equipment. Logical organization of the text covers basic principles first, and builds on those with individual chapters for each surgical specialty. More than 800 tables and boxes summarize essential information in a quick, easy-to-reference format. UNIQUE! Expert CRNA authors provide the most up-to-date clinical information for CRNAs to use in daily practice. Handy references make it quick and easy to find the latest and most important research in the field. NEW! Updated content reflects the latest changes in the industry. NEW! Two new chapters include Crisis Resource Management and Patient Safety and Infection Control and Prevention.

Advanced technologies for planning and operation of

prosumer energy systems - Bin Zhou 2023-04-28

Advances in Information and Communication Technologies

- Mykhailo Ilchenko 2019-03-30

This book highlights the most important research areas in Information and Telecommunication Technologies as well as Radio Electronics. The respective chapters share in-depth and extended results in these areas with a view to resolving practically relevant and challenging issues including: management services and quality control, improved estimates for reliability indicators, the cryptographic technology Blockchain, research and forecasting of technological characteristics, satellite communications, multiservice transmission systems and effective technological solutions. These results can be used in the implementation of novel systems and to promote the exchange of information in e-societies. Given its scope the book offers a valuable resource for scientists, lecturers, specialists working at enterprises, graduate and undergraduate students who engage with problems in Information and Telecommunication Technologies as well as Radio Electronics.

Free-space Laser Communication Technologies - 1998

Security-Related Advanced Technologies in Critical

Infrastructure Protection - Tünde Anna Kovács 2022-09-05

This book collects the latest research results on security-related advanced technologies. The chapters contain relevant and interesting topics from numerous research. Data science and artificial intelligence research nowadays one of the most important

topics for the industry and the security sectors. The autonomy and counter-autonomy research topic are also very interesting.

Autonomous cars have become a part of the common days, but their safe and secure application is not assured. The research results in this field want to support and assure safe and secure autonomous applications in our quotidian life. Also, the safe and secure robotics in the industries and the defence assure a high standard of living and the given research results in this area can use to increase it. The researchers work on it and publish the results that can be interesting for the other researchers and the innovators, but also the industrial part members. The researchers work on it and publish the results that can be interesting for the other researchers and the innovators, but also the industrial part members. Communication is a part of our life, but the communication systems mesh all around the world.

Communication is the basis of modern life because without it life stop. One other interesting and very important research area is the material sciences. Virtual life cannot exist without hardware and materials. The new technical applications require new materials, that can suffice the mechanical and physical, chemical properties demand. Nowadays a common requirement of the materials the high strength and lightweight. Researchers want to serve the industrial requests and innovate new composite materials or increase the properties of the material through a new technological process. The authors publish the latest results of the security-related research area including the newest innovations and technologies which rise the interest of the defence and the modern industries even the interest of other researchers.