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Radical Reconstruction - Lebbeus Woods 2001-03-01

Lebbeus Woods is widely regarded as the most exciting and original architectural visionary today. His body of theoretical work and extraordinary drawings have served as inspiration for architects, artists, and legions of students. *Radical Reconstruction*, now available in paperback for the first time, contains projects that address the relationships between architecture and war, political revolution/reaction, and natural disasters. These projects define new approaches to the reconstruction of buildings and urban fabric damaged by unpredictable and largely uncontrollable forces of both human and natural origin.

History of American Cinema -

2020 IEEE/ACM International Workshop on Heterogeneous High-performance Reconfigurable Computing (H2RC). - 2020

Dork Diaries 14 - Rachel Renée Russell 2019-10-22

Nikki Maxwell's summer is packed with drama in this fourteenth installment of the #1 New York Times bestselling *Dork Diaries* series! Nikki and her bandmates are looking forward to an AWESOME summer on tour as the opening act for the world famous Bad Boyz! Nikki is a little worried when her frenemy, MacKenzie Hollister, weasels her way into a social media intern position with the tour. But she has a total MELTDOWN when she learns that MacKenzie is her new roommate! Will Nikki survive her dream tour as it quickly goes from AWESOME to AWFUL?! The drama continues in *Dork Diaries 14: Tales from a Not-So-Best Friend Forever!*

Globalisation and National Identity in History Textbooks - Joseph Zajda 2017-07-06

Globalisation and National Identity in History Textbooks: The Russian Federation, the 16th book in the 24-volume book series *Globalisation, Comparative Education and Policy Research*, discusses trends in dominant discourses of identity politics, and nation-building in school history textbooks in the Russian Federation (RF). The book addresses one of the most profound examples of the re-writing of history following a geo-political change. Various book chapters examine debates pertaining to national identity, patriotism, and the nation-building process. The book discusses the way in which a new sense of patriotism and nationalism is documented in prescribed Russian history textbooks, and in the Russian media debate on history textbooks. It explores the ambivalent and problematic relationship between the state, globalisation and the construction of cultural identity in prescribed school history textbooks. By focusing on ideology, identity politics, and nation-building, the book examines history teachers' responses to the content of history textbooks and how teachers depict key moments in modern Russian history. This book, an essential sourcebook of ideas for researchers, practitioners and policymakers in the fields of globalisation and history education, provides timely information on history teachers' attitudes towards historical knowledge and historical understanding in prescribed Russian history textbooks.

Starspeak - Dawn Henderson 2012-12-01

Messages of ascension, love, contact and more in the words of our star brothers and sisters. We are moving through a time of massive change, unprecedented in recorded memory, a time in which life as we know it is being turned upside down. But we do not have to travel through this often confusing and disorientating process alone, for from across the galaxies our star brothers and sisters have gathered to help us through this transformation. Many people on Earth are now being contacted by these loving beings, receiving their words of guidance, encouragement and reassurance to share with those who as yet do not hear them. This book contains some of these messages, received by the author from the star beings of light, messages that are filled with the love and wisdom of the universe. Dawn Henderson is an author, channel and spiritual teacher who lives in the ancient mystical landscape of Wiltshire,

England.

Dr. Sebi Alkaline Diet for Beginners - Robert Harrison 2019-09

This food plan is based at the African Bio-Mineral Balance idea and was developed by means of the self-educated herbalist Alfredo Darrington Bowman - higher called Dr. Sebi. Despite his call, Dr. Sebi changed into now not a medical health practitioner and did now not keep a PhD. He designed this weight loss plan for everyone who wishes to naturally remedy or save you sickness and improve their standard fitness without relying on traditional Western medication. This book contains all you need to know about reverse diabetes and high blood pressure and detox your liver through dr. sebi grab your copy now

The Handbook of Data Mining - Nong Ye 2004-11-19

Created with the input of a distinguished International Board of the foremost authorities in data mining from academia and industry, *The Handbook of Data Mining* presents comprehensive coverage of data mining concepts and techniques. Algorithms, methodologies, management issues, and tools are all illustrated through engaging examples and real-world applications to ease understanding of the materials. This book is organized into three parts. Part I presents various data mining methodologies, concepts, and available software tools for each methodology. Part II addresses various issues typically faced in the management of data mining projects and tips on how to maximize outcome utility. Part III features numerous real-world applications of these techniques in a variety of areas, including human performance, geospatial, bioinformatics, on- and off-line customer transaction activity, security-related computer audits, network traffic, text and image, and manufacturing quality. This Handbook is ideal for researchers and developers who want to use data mining techniques to derive scientific inferences where extensive data is available in scattered reports and publications. It is also an excellent resource for graduate-level courses on data mining and decision and expert systems methodology.

Palo Alto Networks - David Mayer 2020-12-29

A Comprehensive guide covers everything you need to pass the Palo Alto Networks exams on your first try Do you want to earn Palo Alto Networks certification with first try? Are you looking for the practice tests for the Palo Alto Networks certification? If you answered "yes" to any of these, then this is the perfect educational and informational book for you! Hello! Welcome to "Palo Alto Networks Exams Study Guide." Palo Alto Networks is known around the world as a foremost provider of cybersecurity goods. It is a valued credential for those seeking development in the field of IT security. This Palo Alto Networks Certification Study Guide covers 100% of exam information, ensuring that you have a complete understanding of the right certification exam for you. The practice tests are constructed to enhance your confidence to sit for an actual exam as you will be challenging your knowledge and skills for the exams. This guide will cover all aspects of the Palo Alto Networks Exam Certifications. Successfully passing this assessment certifies that the successful applicant has the knowledge and skills essential to device the Palo Alto Networks next-generation firewall PAN-OS(R) 9.1 platform in any situation. Certification helps you become a better specialist and hones your skills to the highest levels. Here's what makes this book special: Basics & Fundamentals of Palo Alto Networks Exam AVIATRIX Certified Engineer (ACE) Program: Exam Guide & Sample Practice Test PCCSA - PALO ALTO Networks Certified Cybersecurity Associate: Exam Guide & Sample Practice Test PCNSA - PALO ALTO Networks Certified Network Security Administrator: Exam Guide & Sample Practice Test PCNSE - PALO ALTO Networks Certified Network Security Engineer (PAN-OS 9.0): Exam Guide & Sample Practice Test PCNSE7 - PALO ALTO Networks Certified Network Security Engineer: Exam Guide & Sample Practice Test By the end of this book you will be prepared to take the PALO ALTO certification Exams Finishing this book will provide you a complete understanding and deep knowledge of all the tools Much, much more! Interested? Then

Scroll up, Click on "Buy now with 1-Click", and Get Your Copy Now! Also, you will get 50% discount on the simulator! To get discount for the simulator, you have to send your purchase receipt to mentioned email address in eBook.

Sportbusiness in Numbers. - 2009-06

Amnesty International Report 2008 - Amnesty International 2008

This annual report documents human rights abuses by governments and armed opposition groups in 150 countries across the world. It provides an invaluable reference guide to international human rights developments.

2015 Uniform Plumbing Code - International Association of Plumbing and Mechanical Officials 2015-03-01

The 2015 edition of the Uniform Plumbing Code (UPC®) represents the most current approaches in the plumbing field. It is the fourth edition developed under the ANSI Consensus process is designated as an American National Standard by the American National Standards Institute (ANSI). Contributions to the content of this code were made by every segment of the built industry, including such diverse interests as consumers, enforcing authorities, installers/maintainers, labor, manufacturers, research/standards/ testing laboratories, special experts and users.

Radio Network Planning and Optimisation for UMTS - Jaana Laiho 2006-05-01

Radio Network Planning and Optimisation for UMTS, Second Edition, is a comprehensive and fully updated introduction to WCDMA radio access technology used in UMTS, featuring new content on key developments. Written by leading experts at Nokia, the first edition quickly established itself as a best-selling and highly respected book on how to dimension, plan and optimise UMTS networks. This valuable text examines current and future radio network management issues and their impact on network performance as well as the relevant capacity and coverage enhancement methods. In addition to coverage of WCDMA radio access technology used in UMTS, and the planning and optimisation of such a system, the service control and management concept in WCDMA and GPRS networks are also introduced. This is an excellent source of information for those considering future cellular networks where Quality of Service (QoS) is of paramount importance. Key features of the Second Edition include: High-Speed Downlink Packet Access (HSDPA) – physical layer, dimensioning and radio resource management Quality of Service (QoS) mechanisms in network for service differentiation Multiple Input – Multiple Output (MIMO) technology Practical network optimisation examples Service optimisation for UMTS and GPRS/EDGE capacity optimisation The ‘hot topic’ of service control and management in WCDMA and GPRS networks, that has evolved since the first edition Companion website includes: Figures Static radio network simulator implemented in MATLAB® This text will have instant appeal to wireless operators and network and terminal manufacturers. It will also be essential reading for undergraduate and postgraduate students, frequency regulation bodies and all those interested in radio network planning and optimisation, particularly RF network systems engineering professionals.

Junior Theory Level 1 - Joyce Ong 2011-01-01

Junior Theory Level 1 - a foundational music theory book specifically designed for children aged 4-7.

Facsimile Products - 1979

Nurse Notebook - Extrem Design 2019-11-21

The book has 120 white pages with dot matrix that will help you while writing and sketching but at the same time gives you enough freedom for notes and other ideas. It comes in handy format 6x9 inches (equivalent to DIN A5). The Nurse Notebook is for those who have a Fable for Medicine or Cure. The Nurse Notebook is versatile, notepad inserts, personal achievements, birthday appointments, your thoughts or other notes of your choice. Use it on holiday as a holiday diary or as a gratitude diary. No matter if motivation, tokens, appointments or notes with this space-saving notebook no wish remains open. For leisure, hobbies or work, this small but fine notebook is always and everywhere suitable for things, ideas or thoughts that want to be noted, e.g. as a thought support or for organizing tasks. Whether for yourself or as a gift for men and women, partners, friends, mums and dads or work colleagues. Especially suitable for birthdays, for Christmas or just as a nice attention for your loved one.

Mastering Power BI - Chandraish Sinha 2021-09-11

Expert Choice to build Business Intelligence landscapes and dashboards for Enterprises KEY FEATURES ● In-depth knowledge of Power BI,

demonstrated through step-by-step exercises. ● Covers data modelling, visualization, and implementing security with complete hands-on training. ● Includes a project that simulates a realistic business environment from start to finish. DESCRIPTION Mastering Power BI covers the entire Power BI implementation process. The readers will be able to understand all the concepts covered in this book, from data modelling to creating powerful - visualizations. This book begins with the concepts and terminology such as Star-Schema, dimensions and facts. It explains about multi-table dataset and demonstrates how to load these tables into Power BI. It shows how to load stored data in various formats and create relationships. Readers will also learn more about Data Analysis Expressions (DAX). This book is a must for the developers wherein they learn how to extend the usability of Power BI, to explore meaningful and hidden data insights. Throughout the book, you keep on learning about the concepts, techniques and expert practices on loading and shaping data, visualization design and security implementation. WHAT YOU WILL LEARN ● Learn about Business Intelligence (BI) concepts and its contribution in business analytics. ● Learn to connect, load, and transform data from disparate data sources. ● Start creating and executing powerful DAX calculations. ● Design various visualizations to prepare insightful reports and dashboards. WHO THIS BOOK IS FOR This book is for anyone interested in learning how to use Power BI desktop or starting a career in Business Intelligence and Analytics. While this covers all the fundamentals, it is recommended that the reader be familiar with MS-Excel and database concepts. TABLE OF CONTENTS 1. Understanding the Basics 2. Connect and Shape 3. Optimize your datamodel 4. Data Analysis Expressions (DAX) 5. Visualizations in Power BI 6. Power BI Service 7. Securing your application

Ham and Shortwave Radio for the Electronics Hobbyist - Stan Gibilisco 2014-10-06

Get up and running as a ham radio operator—or just listen in on the shortwave bands! Ham and Shortwave Radio for the Electronics Hobbyist shows you, step by step, how to set up and operate your own ham radio station. It's also perfect for those interested in shortwave listening, without getting a ham radio license. This practical guide covers communications modes, assigned frequency ranges in the United States, details on fixed, mobile, and portable ham stations, antennas, and much more. Ham radio will work even when the Internet and other utilities fail. So get on the air and keep the lines of communication open in any situation! Inside, you'll find out all about: Radio waves and how they travel Shortwave and allwave listening Communications modes for ham radio operators, including using the Internet as a supplement Ham radio licenses and assigned frequency ranges (bands) used in the United States Wave-propagation characteristics and tips on the bands best suited for use at different times of the day, year, and sunspot cycle Selecting and installing equipment for fixed ham radio stations Setting up mobile and portable ham radio stations Antennas and transmission lines for various frequencies and station types How to operate your station using popular voice and digital modes Schematic symbols and Q signals for ham radio operators

Pocket Obstetrics and Gynecology - K. Joseph Hurt 2014-08-15

"Prepared by residents and attending physicians, this pocket-sized loose-leaf is created in the style of Pocket Medicine by providing key clinical data for students and residents and focuses on patient care in the OB/GYN setting. Each chapter contains the brief background, differential diagnoses, clinical algorithms, and literature citations that allows a student or intern to shine during rounds by helping them quickly formulate basic management plans. Special appendices on pelvic anatomy, common OB-GYN procedures, common tests in OB-GYN, and drugs in OB and breastfeeding, may be especially useful references. Because OB-GYN involves so much interdisciplinary learning, a carefully prepared cross-referenced index is included to help assist in locating information quickly. Pocket ObGyn offers a handy summary of key clinical information designed to form the basis of an individual's pocket notebook or to be integrated into one's own notebook"--Provided by publisher.

Problem Solving in Chemical Engineering with Numerical Methods - Michael B. Cutlip 1999

"A companion book including interactive software for students and professional engineers who want to utilize problem-solving software to effectively and efficiently obtain solutions to realistic and complex problems. An Invaluable reference book that discusses and Illustrates practical numerical problem solving in the core subject areas of Chemical Engineering. Problem Solving in Chemical Engineering with Numerical Methods provides an extensive selection of problems that

require numerical solutions from throughout the core subject areas of chemical engineering. Many are completely solved or partially solved using POLYMATH as the representative mathematical problem-solving software, Ten representative problems are also solved by Excel, Maple, Mathcad, MATLAB, and Mathematica. All problems are clearly organized and all necessary data are provided. Key equations are presented or derived. Practical aspects of efficient and effective numerical problem solving are emphasized. Many complete solutions are provided within the text and on the CD-ROM for use in problem-solving exercises."--BOOK JACKET. Title Summary field provided by Blackwell North America, Inc. All Rights Reserved

Dr. Sebi Cure for Cancer - Carin C Hendry 2019-11-03

DR. SEBI CURE FOR CANCER - A COMPREHENSIVE GUIDE FOR CANCER TREATMENT USING DR. ALKALINE DIE Alfredo Bowman, popularly known as Dr. Sebi, is a renowned holistic doctor who cured several terminal diseases with the use of herbs, spices, and a unique vegan diet that reverses all the diseases in the body. This vegan diet cleanses the mucus membrane. In doing so, the skin, blood, and lymphatic system get the boost they need to reverse the cancer disease and every other illness in the body. The popular Usha village that is usually referred to in Dr. Sebi's stories is a tropical healing village with a facility that is dedicated to the growth of Dr. Sebi's vegan diet combination. The main ingredients contained in Dr. Sebi's products are Sarsaparilla, Elderberry, Cocolmecca, Burdock Root, and Yellow Dock. Contained in the Yellow Dock plant is a laxative, anthraquinones which help to cleanse the body. There is also Cocolmecca, which aids digestion and gas reduction. Sarsaparilla and Burdock Root are mostly used together for detoxification. This detoxification takes place in the lymphatic system, skin, and blood. Sarsaparilla is primarily responsible for the reduction in the fluid retention ability of the body. On the other hand, there is Elderberry, which helps to boost the immune system. If You Want to learn more how to naturally get rid of cancer cells and tumor and achieve total healing, simply CLICK the BUY button NOW!!

Discourses of Globalisation, Multiculturalism and Cultural Identity - Joseph Zajda 2022-11-24

This book examines dominant discourses in multiculturalism and cultural identity globally. It critiques dominant discourses and debates pertaining to multiculturalism and cultural identity, set against the current backdrop of growing social stratification and unequal access to quality education. It addresses current discourses concerning globalisation, ideologies and the state, as well as approaches to constructing national, ethnic and religious identities in the global culture. It explores the ambivalent and problematic connections between the state, globalisation, and the construction of cultural identity. The book also explores conceptual frameworks and methodological approaches applicable to research on the state, globalisation, multiculturalism and identity politics. Drawing on diverse paradigms, ranging from critical theory to globalisation, the book, by focusing on globalisation, ideology and cultural identity, critically examines recent research dealing with cultural diversity and its impact of identity politics. Given the need for a multiple perspective approach, the authors, who have diverse backgrounds and hail from different countries and regions, offer a wealth of insights, contributing to a more holistic understanding of the nexus between multiculturalism and national identity. With contributions from key scholars worldwide, the book should be required reading for a broad spectrum of users, including policy-makers, academics, graduate students, education policy researchers, administrators, and practitioners. *Newnes Guide to Radio and Communications Technology* - Ian Poole 2003-07-30

In this brand new volume, Ian Poole begins with a fine introduction to radio, suitable for almost all readers. ...the book is an excellent way for neophytes to step into radio and learn something about it. It begins with the basics and gradually brings in more advanced concepts. We recommend it as an additon to the technical libraries of intermediate-level technical readers. It is an interesting read even for the advanced engineer. - QEX July/August 2004 Ian Poole has written a fascinating guide to the technology and applications of modern radio and communications equipment. His approach provides a useful foundation for college students and technicians seeking an update on the latest technology, but each topic is introduced from the basics, ensuring that the book is equally rewarding for managers in the communications industry, sales staff, and anyone seeking to update their knowledge of this exciting and rapidly expanding area of technology. The key areas covered by this book are: Radio principles Broadcasting, including Digital Radio Private mobile radio, (PMR) including trunking and TETRA

Cellular telecommunications, including GSM and 3G Data communications, including Bluetooth and 802.11 As well as a survey of established and cutting-edge technologies the underpinning science and electronics is introduced. *Includes a survey of established and cutting-edge communication technologies *Introduces the underpinning science and electronics of the subject *Provides an emphasis on circuits and how they work

Accounting Information Systems - Leslie Turner 2020-01-02

Accounting Information Systems provides a comprehensive knowledgebase of the systems that generate, evaluate, summarize, and report accounting information. Balancing technical concepts and student comprehension, this textbook introduces only the most-necessary technology in a clear and accessible style. The text focuses on business processes and accounting and IT controls, and includes discussion of relevant aspects of ethics and corporate governance. Relatable real-world examples and abundant end-of-chapter resources reinforce Accounting Information Systems (AIS) concepts and their use in day-to-day operation. Now in its fourth edition, this popular textbook explains IT controls using the AICPA Trust Services Principles framework—a comprehensive yet easy-to-understand framework of IT controls—and allows for incorporating hands-on learning to complement theoretical concepts. A full set of pedagogical features enables students to easily comprehend the material, understand data flow diagrams and document flowcharts, discuss case studies and examples, and successfully answer end-of-chapter questions. The book's focus on ease of use, and its straightforward presentation of business processes and related controls, make it an ideal primary text for business or accounting students in AIS courses.

Ultimate Guide: Plumbing, Updated 5th Edition - Editors of Creative Homeowner 2021-05-25

Learn how to make both minor and major DIY repairs and improvements that will save you money! No need to hire a plumber, especially in emergencies when you need an immediate fix. This best-selling guide on plumbing will teach you everything you need to know, from understanding how plumbing systems work and fixing a leaky faucet to making renovations, soldering copper, installing fixtures, and so much more. Featuring detailed how-to diagrams, code-compliant techniques, tips on how to spot and improve outdated or dangerous materials in your home plumbing system, and so much more, this newly updated edition features new code-compliant techniques for 2021, plus a new section on air gap fittings.

Innovation and Growth - Martin Andersson 2012-09-20

Provides an overview and assessment of established research on firms' strategic choices of R&D efforts and their firm-level returns, and explains the consequences for economy-wide technological change and growth.

NFPA 418 Standard for Heliports - National Fire Protection Association 2021-01-20

The LTE / SAE Deployment Handbook - Jyrki T. J. Penttinen 2011-11-30

Describing the essential aspects that need to be considered during the deployment and operational phases of 3GPP LTE/SAE networks, this book gives a complete picture of LTE systems, as well as providing many examples from operational networks. It demystifies the structure, functioning, planning and measurements of both the radio and core aspects of the evolved 3G system. The content includes an overview of the LTE/SAE environment, architectural and functional descriptions of the radio and core network, functionality of the LTE applications, international roaming principles, security solutions and network measurement methods. In addition, this book gives essential guidelines and recommendations about the transition from earlier mobile communications systems towards the LTE/SAE era and the next generation of LTE, LTE-Advanced. The book is especially suitable for the operators that face new challenges in the planning and deployment phases of LTE/SAE, and is also useful for network vendors, service providers, telecommunications consultancy companies and technical institutes as it provides practical information about the realities of the system. Presents the complete end-to-end planning and measurement guidelines for the realistic deployment of networks Explains the essential and realistic aspects of commercial LTE systems as well as the future possibilities An essential tool during the development of transition strategies from other network solutions towards LTE/SAE Contains real-world case studies and examples to help readers understand the practical side of the system

The Book Of Hiram - Christopher Knight 2012-06-30

This is the extraordinary story of Knight and Lomas's fourteen year quest to uncover the secret teachings buried beneath Roslin Chapel near Edinburgh. Their quest ends with extraordinary revelations about early human history - the origins of Christianity, of Freemasonry and of science. They show that all were charged with a belief in a secret cosmic code, linking, for example, the Exodus from Egypt, the founding of Solomon's Temple and the Star of Bethlehem. This book reveals for the first time why there were such high expectations of a Messiah at the time of the birth of Jesus Christ. The Book of Hiram will change everything you thought you knew about both the Bible and Freemasonry.

Hacking: A Beginners Guide to Your First Computer Hack; Learn to Crack a Wireless Network, Basic Security Penetration Made Easy - Kevin White 2018-02-22

Hacking will demand your full dedication and interest and also a desire and a craving for knowledge and constant advancement. If your goal is to be a hacker, this is the book to start with!. Today only, get this bestseller for a special price. This book contains proven steps and strategies on how to hack a Wireless Network, carry out a penetration test and so much more. It gives an insight to the most used hacking techniques and how to develop your basic skills Here Is A Preview Of What You'll Learn... What is Hacking? How to Crack Wireless Networks Kali Linux Linux Hacking Tools Penetration Test Your First Hack: WEP Network And basically everything you need to help you to start your Hacking career Get your copy today! Take action today and buy this book now at a special price!

Introduction to Mechatronic Design - J. Edward Carryer 2011

Introduction to Mechatronic Design is ideal for upper level and graduate Mechatronics courses in Electrical, Computing, or Mechanical & Aerospace Engineering. Unlike other texts on mechatronics that focus on derivations and calculations, Introduction to Mechatronics, 1e, takes a narrative approach, emphasizing the importance of building intuition and understanding before diving into the math. The authors believe that integration is the core of mechatronics and students must have a command of each of the domains to create the balance necessary for successful mechatronic design and devote sections of the book to each area, including mechanical, electrical, and software disciplines, as well as a section on system design and engineering. A robust package of teaching and learning resources accompanies the book.

2016 Wireless Days (WD) - IEEE Staff 2016-03-23

The Wireless Days Conference is a major international conference which aims to bring together researchers, technologists and visionaries from academia, research centers and industry, engineers and students to exchange, discuss, and share their experiences, ideas and research results about theoretical and practical aspects of wireless networking. Wireless Days 2016 will include presentations of both theoretical and experimental achievements, innovative wireless systems, prototyping efforts, case studies and advances in technology related to wireless networking and communication infrastructures. The Wireless Days 2016 program will be split into the following 7 conference tracks: Track 1 5G and Beyond, Track 2 Wireless Communications, Track 3 Ad Hoc and Sensor Networks, Track 4 Vehicular and Delay Tolerant Networks, Track 5 Wireless Models and Simulation, Track 6 Mobile Networks Protocols and Applications, Track 7 Wireless Security.

International Existing Building Code 2006 - International Code Council 2007-09-01

A valuable addition to the popular Code & Commentary series from the International Code Council, the 2006 International Existing Building Code?: Code & Commentary provides comprehensive, clear coverage of the meanings and implications of the regulations contained in the 2006 International Existing Building Code?. The book guides readers through the code's text, tables, and figures, following each section with a straightforward commentary that offers suggestions for applying the code effectively, and the potential consequences of not adhering to it. An invaluable addition to the library of code officials, engineers, architects, inspectors, plans examiners, and contractors, this is also a powerful resource for anyone interested in advancing their knowledge and use of the 2006 IEBC?.

Medical Radiation Dosimetry - Brian J McParland 2013-11-11

Accurate radiation dosimetry is a requirement of radiation oncology, diagnostic radiology and nuclear medicine. It is necessary so as to satisfy the needs of patient safety, therapeutic and diagnostic optimisation, and retrospective epidemiological studies of the biological effects resulting from low absorbed doses of ionising radiation. The radiation absorbed dose received by the patient is the ultimate consequence of the transfer of kinetic energy through collisions between energetic charged particles

and atoms of the tissue being traversed. Thus, the ability of the medical physicist to both measure and calculate accurately patient dosimetry demands a deep understanding of the physics of charged particle interactions with matter. Interestingly, the physics of charged particle energy loss has an almost exclusively theoretical basis, thus necessitating an advanced theoretical understanding of the subject in order to apply it appropriately to the clinical regime. Each year, about one-third of the world's population is exposed to ionising radiation as a consequence of diagnostic or therapeutic medical practice. The optimisation of the resulting radiation absorbed dose received by the patient and the clinical outcome sought, whether diagnostic or therapeutic, demands accuracy in the evaluation of the radiation absorbed doses resulting from such exposures. This requirement arises primarily from two broadly-encompassing factors: The requirement in radiation oncology for a 5% or less uncertainty in the calculation and measurement of absorbed dose so as to optimise the therapeutic ratio of the probabilities of tumour control and normal tissue complications; and The establishment and further refinement of dose reference levels used in diagnostic radiology and nuclear medicine to minimise the amount of absorbed dose for a required degree of diagnostic benefit. The radiation absorbed dose is the outcome of energetic charged particles decelerating and transferring their kinetic energy to tissue. The calculation of this energy deposition, characterised by the stopping power, is unique in that it is derived entirely from theoretical principles. This dominant role of the associated theory makes its understanding of fundamental to the calculation of the radiation absorbed dose to the patient. The theoretical development of charged particle energy loss recognised in medical physics textbooks is in general limited to basic derivations based upon classical theory, generally a simplified form of the Bohr theory. More advanced descriptions of, for example, the Bethe-Bloch quantum result usually do not go beyond the simple presentation of the result without full explanation of the theoretical development of the theory and consideration of its limitations, its dependencies upon the Born perturbation theory and the various correction factors needed to correct for the failures of that Born theory at higher orders. This is not appropriate for a full understanding of the theory that its importance deserves. The medical radiation physicist should be aware of the details of the theoretical derivations of charged particle energy loss in order to appreciate the levels of accuracy in tabular data provided in reports and the calculation methodologies used in modern Monte Carlo calculations of radiation dosimetry.

Satellite Communications - Jeremy E. Allnut 2019-10-01

Extensive revision of the best-selling text on satellite communications — includes new chapters on cubesats, NGSO satellite systems, and Internet access by satellite. There have been many changes in the thirty three years since the first edition of Satellite Communications was published. There has been a complete transition from analog to digital communication systems, with analog techniques replaced by digital modulation and digital signal processing. While distribution of television programming remains the largest sector of commercial satellite communications, low earth orbit constellations of satellites for Internet access are set to challenge that dominance. In the third edition, chapters one through three cover topics that are specific to satellites, including orbits, launchers, and spacecraft. Chapters four through seven cover the principles of digital communication systems, radio frequency communications, digital modulation and multiple access techniques, and propagation in the earth's atmosphere, topics that are common to all radio communication systems. Chapters eight through twelve cover applications that include non-geostationary satellite systems, low throughput systems, direct broadcast satellite television, Internet access by satellite, and global navigation satellite systems. The chapter on Internet access by satellite is new to the third edition, and each of the chapters has been extensively revised to include the many changes in the field since the publication of the second edition in 2003. Two appendices have been added that cover digital transmission of analog signals, and antennas. An invaluable resource for students and professionals alike, this book: Focuses on the fundamental theory of satellite communications Explains the underlying principles and essential mathematics required to understand the physics and engineering of satellite communications Discusses the expansion of satellite communication systems in areas such as direct-broadcast satellite TV, GPS, and internet access Introduces the rapidly advancing field of small satellites, referred to as SmallSats or CubeSats Provides relevant practice problems based on real-world satellite systems Satellite Communications is required reading for undergraduate and postgraduate

students in satellite communications courses and an authoritative reference for engineers working in communications, systems and networks, and satellite operations and management.

Electronics Engineering - Knowledge Flow 2014-08-25

Electronics is the broad field of science which covers the study of flow and control of electricity in the form of electrons and the study of their performance and effects of gases, vacuums conductors and semiconductors, and with electronic components using such electrons.

Electronics Engineering is a sub branch of electrical engineering. This field deals with studies the use of electronic components in a broad way and is related to the application of basic electronics devices like integrated circuits, transistors etc. The Electronics Engineering book covers the study of electronic components, circuits, transmitter, receiver, integrated circuits (IC). It also provides basic laws of electronics, magnetism, series and parallel circuits and basics electronics like logic gates.