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The Satanic Verses - Salman Rushdie 2000-12

Just before dawn one winter's morning, a hijacked jetliner explodes above the English Channel. Through the falling debris, two figures, Gibreel Farishta, the biggest star in India, and Saladin Chamcha, an expatriate returning from his first visit to Bombay in fifteen years, plummet from the sky, washing up on the snow-covered sands of an English beach, and proceed through a series of metamorphoses, dreams, and revelations.

The Pioppi Diet - Dr Aseem Malhotra 2017-06-29

'I am obsessed with The Pioppi Diet . . . I feel leaner, energised, definitely less bloated and more healthy. I genuinely feel like this is no longer a diet plan, it's just the way I eat' SARA COX

_____ We are not being given the truth about our health . . . We're told to avoid saturated fats, we're marketed health food that is laden with sugar and we're encouraged to pound out miles at the gym. However, our chances of getting obese are increasing - raising our risk of Type-2 diabetes, cancer, dementia and heart disease. Yet in the tiny Italian village of Pioppi, life is as simple as it is long and healthy. There is no gym, no supermarket, the food is delicious and they enjoy a glass of wine every evening. Now cardiologist Dr Aseem Malhotra - a world-leading obesity expert and Britain's number one anti-sugar campaigner - and acclaimed filmmaker Donal O'Neill combine the wisdom of this remarkably long lived population with decades of nutrition and medical research to cut through long-standing dietary myths and create this easy-to-follow lifestyle plan. Indulge in delicious food for a happier, healthier and longer life . . . · A creamy crab and ricotta omelette with sliced avocado · Grilled halloumi and kale salad with tahini yoghurt dressing · Steak burger with mature cheddar, tomato and avocado · Cauliflower steaks and crumbled feta, za'atar and chilli · A one-dish roasted aubergine with feta, herbs and yoghurt dressing

_____ This isn't a diet or lifestyle, which requires saying 'no' to the things you love, or exercising for hours upon end. In just three weeks, The Pioppi Diet will help you make simple, achievable and long-lasting changes to how you eat, sleep and move - changes that all of us, no matter how busy we are, can make. 'A must have for every household and a must read for every medical student and doctor' Professor Dame Sue Bailey, the Chair of the Academy of Medical Royal Colleges 'Revolutionary' Richard Thompson, former physician to HRH Queen Elizabeth 'This book has the power to make millions of people healthier and happier.' Andy Burnham, former Secretary of State for Health As heard on . . . · BBC Radio 2's The Jeremy Vine Show · ITV's Save Money: Good Health · Sky News · BBC World News · BBC Asian Network · London Live News and as seen in The Telegraph . . .

Directory of Members - Federation of American Societies for Experimental Biology 1994

Preventive Cardiology: A Practical Approach, Second Edition - Nathan Wong 2005

PREVENTIVE CARDIOLOGY is the premier source of clinically relevant information on the prevention of coronary heart disease. Thoroughly updated by international experts, the book discusses screening, risk factors, prevention in special populations, and primary and secondary prevention in the context of the daily practice of medicine. PREVENTIVE CARDIOLOGY is a "must have" for cardiologists and primary care physicians. Review of the first edition: "Excellent...Structured in a way that invites the reader to use it as a comprehensive reference...The combination of theory and guidelines with a practical approach to the patient at risk for cardiovascular diseases is a strength." The New

England Journal of Medicine

Medicinal Plants for Lung Diseases - Kamal Dua 2021-07-30

This book summarizes experimentally-supported research on the therapeutic efficacy of plant extracts and their constituents on a range of respiratory diseases including infections. It discusses the pharmacological, cellular and molecular factors involved in the pathogenesis of respiratory diseases and their modulation by plant-derived compounds. Additionally, it underlines the growing relevance of medicinal plant-based advanced drug delivery systems for treating lung diseases providing maximal therapeutic efficacy with better patient compliance. Overall, this comprehensive book is a blend of translational, biological, chemical and drug delivery aspects of medicinal plants employed in targeting respiratory diseases and attracts a range of audiences including physiochemist, translational and clinical researchers working in the field of respiratory diseases.

An Introduction to Language and Linguistics - Ralph Fasold 2006-03-06

This accessible textbook is the only introduction to linguistics in which each chapter is written by an expert who teaches courses on that topic, ensuring balanced and uniformly excellent coverage of the full range of modern linguistics. Assuming no prior knowledge the text offers a clear introduction to the traditional topics of structural linguistics (theories of sound, form, meaning, and language change), and in addition provides full coverage of contextual linguistics, including separate chapters on discourse, dialect variation, language and culture, and the politics of language. There are also up-to-date separate chapters on language and the brain, computational linguistics, writing, child language acquisition, and second-language learning. The breadth of the textbook makes it ideal for introductory courses on language and linguistics offered by departments of English, sociology, anthropology, and communications, as well as by linguistics departments.

The Forgotten People - Saleem Badat 2013

The apartheid state employed many weapons against its opponents: imprisonment, banning, detention, assassination - and banishment. In a practice reminiscent of Tsarist and Soviet Russia, a large number of 'enemies of the state' were banished to remote areas, far from their homes, communities and followers. Here their existence became 'a slow torture of the soul', a kind of social death. This is the first study of an important but hitherto neglected group of opponents of apartheid, set in a global, historical and comparative perspective. It looks at the reasons why people were banished, their lives in banishment and the efforts of a remarkable group of activists, led by Helen Joseph, to assist them. Book jacket.

The History of the Qur'ān - Shehzad Saleem 2019

The Qur'an was revealed in parts. It was after this piecemeal revelation that its parts were given a new arrangement and then the collected whole was transmitted to the later generations. A number of illustrious scholars in the past have undertaken to write down this collection and transmission history of the Qur'ān. What then is the need to revisit and synthesize this history in the wake of these studies? In the humble opinion of this writer, the answer to this question is that most previous works on this topic have been marred by three flaws and hence occasioned this study. The first flaw is that the collection history of the Qur'ān has generally been compiled only on the basis of historical reports found in Ḥadīth anthologies. Seldom was this collection history based on the account of the Qur'an itself on its collection. The second flaw is that tools of historical criticism have not always

been fully employed to evaluate the content acquired from Ḥadīth anthologies on the collection of the Qur'ān. The result is that, at times, far-reaching conclusions have been drawn from data that is of questionable reliability. The third flaw is that the readings of the Qur'ān transmitted by tentative (dhannī) means have been regarded acceptable along with its reading transmitted by certain (qaṭ'ī) means against the verdict of the Qur'ān itself. In this way, both have been equated and the distinction between the two has become extremely blurred if not totally forgotten.... The objectives of this study are to (i) synthesize the collection and transmission history of the Qur'ān on the basis of the Qur'ān and established historical sources. (ii) critically evaluate the accounts of the Qur'ān's collection and other related content mentioned in Ḥadīth anthologies using tools of historical criticism. The reader will find the second of the above objectives spanning the greater part of the study because its content is plentiful and needs painstaking reevaluation. This critique constitutes Section 1 (Chapters 1 to 17) of this study. The synthesis is attempted in Section 2 (Chapters 1 and 2). -- from Introduction.

Cumulated Index Medicus - 1993

Cerebral Revascularization - E-Book - Saleem I. Abdulrauf
2010-12-03

Cerebral Revascularization: Techniques in Extracranial-to-Intracranial Bypass Surgery, by Saleem I. Abdulrauf, MD, FACS, offers unmatched expert guidance. Through a series of dynamic, step-by-step instructional videos of the most common and uncommon procedures, you will deepen your understanding of these techniques and be able to confidently perform them. Edited and written by international leaders in neurosurgery, this definitive reference - with a foreword written by M. Gazi Yasargil, MD creator of the procedure - is the first and only text entirely dedicated to this surgery and provides you with exclusive, authoritative information. Access the full text, video library, and reference links to PubMed at www.expertconsult.com. Sharpen your skills in Extracranial-to-Intracranial (EC-IC) Bypass Surgery with help from the first and only text entirely dedicated to this quickly evolving procedure. Get exclusive, first-hand expert knowledge from an internationally renowned team of editors and contributors, all leaders in cerebrovascular care. See key EC-IC bypass procedures performed in detailed, step-by-step instructional video clips. Access the full text online including the complete video library, reference lists, and additional online-only information at www.expertconsult.com.

Document of Destiny - Shad Saleem Faruqi 2008

YOUR PATH TO C-SUITE - Saleem Sufi 2022-08-28

If you are a career-minded professional and want to reach the top of the corporate ladder, it's not about your degrees and certifications or your long corporate experience. Today, the path to C-suite demands a different set of skills and personality attributes. Saleem Sufi, an executive coach with his 30-year of C-level corporate experience working for top Fortune 500 companies in different regions and cultures, explains in plain language practical strategies, tactics, and tips that you can apply without any further training to accelerate the progress of your career to reach the C-suite.

Deploying IPv6 in Broadband Access Networks - Adeel Ahmed 2011-09-20

An essential reference for deploying IPv6 in broadband networks. With the exponential growth of the Internet and increasing number of end users, service providers are increasingly looking for ways to expand their networks to meet the scalability requirements of the growing number of Internet-ready appliances or "always-on" devices. This book bridges a gap in the literature by providing coverage of Internet Protocol Version 6 (IPv6), specifically in broadband access networks. The authors, who are Cisco Certified Internetworking Experts (CCIE), provide comprehensive and first-rate coverage of: IPv6 drivers in broadband networks IPv6 deployment in Cable, DSL, ETTH, and Wireless networks Configuring and troubleshooting IPv6 gateway routers and host Configuring and troubleshooting IPv6 edge routers Configuring and troubleshooting IPv6 provisioning servers The authors also discuss challenges faced by service providers and how IPv6 addresses these issues. Additionally, the

book is complemented with examples throughout to further facilitate readers' comprehension and a real large-scale IPv6 BB SP case study is presented. Deploying IPv6 in Broadband Access Networks is essential reading for network operators, network design engineers and consultants, network architects, and members of the networking community.

Inside Al-Qaeda and the Taliban - Syed Saleem Shahzad
2011-08-15

President Obama may have delivered on his campaign promise to kill Osama bin Laden, but as an Al-Qaeda strategist, bin Laden has been dead for years. This book introduces and examines the new generation of Al-Qaeda leaders who have been behind the most recent attacks. Investigative journalist Syed Saleem Shahzad dedicated his life to revealing the strategies and inner workings of Al-Qaeda and the Taliban. He had access to top-level commanders in both movements, as well as within the ISI, Pakistan's intelligence service. Shahzad's work was praised by US Secretary of State Hillary Clinton for "bringing to light the troubles extremism poses to Pakistan's stability." Inside Al-Qaeda and the Taliban explains the wider aims of both organizations and provides an essential analysis of major terrorist incidents, including the 2008 Mumbai attacks. In May 2011, Shahzad was abducted and killed in Pakistan, days after writing an article suggesting that insiders in the Pakistani navy had colluded with Al-Qaeda in an attack on a naval air station. This book is a testament to his fearless reporting and analytical rigor. It will provide readers worldwide with invaluable insights into the new phase of the ongoing struggle against terrorism which threatens to tear apart the fragile fabric of so many countries.

Geological Survey Water-supply Paper - 1976

The Martindale-Hubbell Law Directory - 1997

Healthcare Education in Nigeria - Joseph A. Balogun
2020-12-30

This book provides a comprehensive and authoritative assessment of the training of health professionals in Nigeria, looking back to how health care education has evolved in the country over time, before investigating new and emerging trends. The book begins with a discussion of the fundamentals of health care education, the art of teaching health care students, and modeling professionalism in health care. The book highlights the work of pioneer Nigerian health care academics, and explores the administration of health care education at departmental level. Finally, it highlights the role of elite Nigerian health care academics in the diaspora, chronicles contemporary challenges in health care education, and makes recommendations for reform. This book will be of interest to students, scholars, and practitioners working on health care education in Africa.

Quality and Safety in Anesthesia and Perioperative Care - Keith J. Ruskin 2016-09-01

Quality and Safety in Anesthesia and Perioperative Care offers practical suggestions for improving quality of care and patient safety in the perioperative setting. Chapters are organized into sections on clinical foundations and practical applications, and emphasize strategies that support reform at all levels, from operating room practices to institutional procedures. Written by leading experts in their fields, chapters are based on accepted safety, human performance, and quality management science and they illustrate the benefits of collaboration between medical professionals and human factors experts. The book highlights concepts such as situation awareness, staff resource management, threat and error management, checklists, explicit practices for monitoring, and safety culture. Quality and Safety in Anesthesia and Perioperative Care is a must-have resource for those preparing for the quality and safety questions on the American Board of Anesthesiology certification examinations, as well as clinicians and trainees in all practice settings.

This is Your Brain on Sports - L. Jon Wertheim 2016

The executive editor of "Sports Illustrated" and a psychologist join forces to examine the behavior of those involved in professional sports, explaining how athletes can successfully put aside personal trauma on game day and why people love to root for a loser.

Selected References on Environmental Quality as it Relates

to Health - 1974

INTERNATIONAL JOURNAL OF INDIAN PSYCHOLOGY -

Prof. Suresh Makvana 2019-03-25

Cavernous Malformations - Issam A. Awad 1993

The massive convergence of information about cavernous malformations has been synthesized in this volume by experts in the field of pathology, neuroradiology and neurosurgery.

Cavernous Malformations represents state-of-the-art knowledge about this lesion and the spectrum of opinion about its nature, clinical behavior and management strategies. Highlights of Cavernous Malformations: Definition and pathologic features Epidemiology Diagnostic imaging Epilepsy Hemorrhage Conservative management Surgical intervention Microsurgical treatments Spinal cavernous malformations Pediatrics Radiotherapy (Distributed by Thieme for the American Association of Neurological Surgeons)

Saudi Medical Journal - 1990

Oxidative Stress - Silvana Andreescu 2016-08

This book provides a comprehensive overview of the oxidative stress related mechanisms in biological systems and the involvement of reactive oxygen and nitrogen species (ROS and RNS), the damage of DNA, proteins, and lipids caused by oxidative stress, the protection of cells and tissues against free radicals, the relation of the oxidative stress to aging and human diseases including cancer and neurological disorders, and the development of new therapeutic approaches to modulate oxidative stress. The current state-of-the-art methodologies including the development of sensors and biosensors for the detection of ROS/RNS and of biomarkers of oxidative stress are also discussed. The book is organized in three overlapping parts, starting with general considerations of the oxidative stress, homeostasis pathways, and ROS mechanisms, followed by chapters discussing the involvement of ROS in particular diseases and concluding with analytical aspects of oxidative stress monitoring. The book provides a solid background on oxidative stress and ROS/RNS generation for novice learners while also offering scientists and practitioners already involved in this field a wealth of information covering the most recent developments in the study of oxidative stress, the role of radical species, novel antioxidant therapies, and methods for assessing free radicals and oxidative stress.

Biomedical Data Mining for Information Retrieval - Sujata Dash 2021-08-24

BIOMEDICAL DATA MINING FOR INFORMATION RETRIEVAL

This book not only emphasizes traditional computational techniques, but discusses data mining, biomedical image processing, information retrieval with broad coverage of basic scientific applications. Biomedical Data Mining for Information Retrieval comprehensively covers the topic of mining biomedical text, images and visual features towards information retrieval. Biomedical and health informatics is an emerging field of research at the intersection of information science, computer science, and healthcare and brings tremendous opportunities and challenges due to easily available and abundant biomedical data for further analysis. The aim of healthcare informatics is to ensure the high-quality, efficient healthcare, better treatment and quality of life by analyzing biomedical and healthcare data including patient's data, electronic health records (EHRs) and lifestyle. Previously, it was a common requirement to have a domain expert to develop a model for biomedical or healthcare; however, recent advancements in representation learning algorithms allows us to automatically to develop the model. Biomedical image mining, a novel research area, due to the vast amount of available biomedical images, increasingly generates and stores digitally. These images are mainly in the form of computed tomography (CT), X-ray, nuclear medicine imaging (PET, SPECT), magnetic resonance imaging (MRI) and ultrasound. Patients' biomedical images can be digitized using data mining techniques and may help in answering several important and critical questions relating to healthcare. Image mining in medicine can help to uncover new relationships between data and reveal new useful information that can be

helpful for doctors in treating their patients. Audience Researchers in various fields including computer science, medical informatics, healthcare IOT, artificial intelligence, machine learning, image processing, clinical big data analytics.

Mining, the Environment, and Indigenous Development Conflicts - Saleem H. Ali 2021-10-19

From sun-baked Black Mesa to the icy coast of Labrador, native lands for decades have endured mining ventures that have only lately been subject to environmental laws and a recognition of treaty rights. Yet conflicts surrounding mining development and indigenous peoples continue to challenge policy-makers. This book gets to the heart of resource conflicts and environmental impact assessment by asking why indigenous communities support environmental causes in some cases of mining development but not in others. Saleem Ali examines environmental conflicts between mining companies and indigenous communities and with rare objectivity offers a comparative study of the factors leading to those conflicts. Mining, the Environment, and Indigenous Development Conflicts presents four cases from the United States and Canada: the Navajos and Hopis with Peabody Coal in Arizona; the Chippewas with the Crandon Mine proposal in Wisconsin; the Chipewyan Inuits, Déné and Cree with Cameco in Saskatchewan; and the Innu and Inuits with Inco in Labrador. These cases exemplify different historical relationships with government and industry and provide an instance of high and low levels of Native resistance in each country. Through these cases, Ali analyzes why and under what circumstances tribes agree to negotiated mining agreements on their lands, and why some negotiations are successful and others not. Ali challenges conventional theories of conflict based on economic or environmental cost-benefit analysis, which do not fully capture the dynamics of resistance. He proposes that the underlying issue has less to do with environmental concerns than with sovereignty, which often complicates relationships between tribes and environmental organizations. Activist groups, he observes, fail to understand such tribal concerns and often have problems working with tribes on issues where they may presume a common environmental interest. This book goes beyond popular perceptions of environmentalism to provide a detailed picture of how and when the concerns of industry, society, and tribal governments may converge and when they conflict. As demands for domestic energy exploration increase, it offers clear guidance for such endeavors when native lands are involved.

Environmental Pollution, Biodiversity, and Sustainable Development - Hasnain Nangyal 2020-01-28

Environmental Pollution, Biodiversity, and Sustainable Development: Issues and Remediation provides an extensive summary of biodiversity. It is the result of the assistance of environmentalists, researchers, policy experts, and academicians from across the globe sharing their research and knowledge on biodiversity and ways to mitigate the threat from climate change, over-utilization of natural resources, pollution, and more. The volume considers that biodiversity encompasses a wide range of biological processes, ranging from genetic diversity, species, populations, communities and ecosystems to landscapes and regions. This book, written by a panel of international experts in biodiversity, conservation biology, and evolution from different countries, including Iran, Pakistan, India, Bangladesh, Tajikistan, Russia, and others, highlights the human impact on biodiversity hotspots on a global scale. The volume provides an abundance of valuable research for faculty, students, and researchers in environmental sciences, government agencies, and many others.

Environmental Diplomacy - Lawrence Susskind 2015

"International environmental agreements have increased exponentially within the last five decades. However, decisions on policies to address key issues such as biodiversity loss, climate change, ozone depletion, hazardous waste transport, and numerous other planetary challenges require individual countries to adhere to international norms. Environmental Diplomacy: Negotiating More Effective Global Agreements provides an accessible narrative on understanding the geopolitics of negotiating international environmental agreements and clear guidance on improving the current system. Authors Lawrence Susskind and Saleem Ali expertly observe international

environmental negotiations to effectively inform the reader on the geopolitics of protecting our planet. This second edition offers an additional perspective from the Global South as well as providing a broader analysis of the role of science in environmental treaty-making. It provides a unique contribution as a panoramic analysis of the process of environmental treaty-making"--Unedited summary from book cover.

The Official ABMS Directory of Board Certified Medical Specialists - American Board of Medical Specialties 2007-11-28

This official directory is a database that includes more than 742,000 physician profiles, including their board certification status. This list also features nearly 20,000 physicians in foreign countries who are certified by American specialty boards.

Black Student Politics, Higher Education and Apartheid - Saleem Badat 1999

Black Student Politics, Higher Education and Apartheid examines two black national student political organisations - the South African National Students' Congress (SANSCO) and the South African Students' Organisation (SASO), popularly associated with Black Consciousness. It analyses the ideologies, politics and organisation of SASO and SANSCO and their intellectual, political and social determinants. It also analyses their role in the educational, political and social spheres, and the factors that shaped their activities. Finally, it assesses their contributions to the popular struggle against apartheid education as well as against race, class and gender oppression.

Fetal MRI - Daniela Prayer 2011-02-15

This is the most comprehensive book to be written on the subject of fetal MRI. It provides a practical hands-on approach to the use of state-of-the-art MRI techniques and the optimization of sequences. Fetal pathological conditions and methods of prenatal MRI diagnosis are discussed by organ system, and the available literature is reviewed. Interpretation of findings and potential artifacts are thoroughly considered with the aid of numerous high-quality illustrations. In addition, the implications of fetal MRI are explored from the medico-legal and ethical points of view. This book will serve as a detailed resource for radiologists, obstetricians, neonatologists, geneticists, and any practitioner wanting to gain an in-depth understanding of fetal MRI technology and applications. In addition, it will provide a reference source for technologists, researchers, students, and those who are implementing a fetal MRI service in their own facility.

Treasures of the Earth - Saleem H. Ali 2009-01-01

Would the world be a better place if human societies were somehow able to curb their desires for material goods? Saleem Ali's pioneering book links human wants and needs by providing a natural history of consumption and materialism with scientific detail and humanistic nuance. It argues that simply disavowing consumption of materials is not likely to help in planning for a resource-scarce future, given global inequality, development imperatives, and our goals for a democratic global society. Rather than suppress the creativity and desire to discover that is often embedded in the exploration and production of material goods--which he calls the treasure impulse--Ali proposes a new environmental paradigm, one that accepts our need to consume treasure for cultural and developmental reasons, but warns of our concomitant need to conserve. In evaluating the impact of treasure consumption on resource-rich countries, he argues that there is a way to consume responsibly and alleviate global poverty.

Trends in Biochemistry and Molecular Biology - Hossain Uddin Shekhar 2019

"Trends in Biochemistry and Molecular Biology" provides the essential information necessary for students in the life and health sciences. The book adopts a readable, student-friendly style that helps introduce students to this fascinating and often-times daunting subject. Each chapter begins with a summary of essential facts followed by descriptions of the subjects that focus on core information with clear, simple diagrams that are easy for students to understand and recall in essays. The extensive use of cross-referencing makes it possible for students to return to individual sections for review purposes without difficulty.

Whether students interests lie in biological, chemical, or medical aspects of biochemistry and molecular biology, "Trends

Biochemistry and Molecular Biology" will help make students able, excited, and eager to read more widely and more deeply on this engaging subject. This important new book not only covers an extensive set of topics of current and special interest, but includes more traditional areas in biochemistry as well. Covering a wide range of topics, from classical biochemistry to proteomics and genomics, it also details the properties of commonly used biochemicals, laboratory solvents, and reagents. Coverage is expanded to include a section on stem cells, chapters on immunochemical techniques and spectroscopy techniques, and additional chapters on drug discovery and development, and clinical biochemistry. Moreover, a number of techniques used in molecular biology, for example, molecular cloning, gel electrophoresis, polymerase chain reaction, microarrays, etc. are also explained with practical examples. It also includes some of the vital pieces of work being conducted across the world, on various topics related to molecular biology. Through it, we attempt to further enlighten the readers about the new concepts in this field. Altogether, presented in an organized, concise, and simple-to-use format, "Trends in Biochemistry and Molecular Biology" allows quick access to the most frequently used data. There is an emphasis on biological aspects of biochemistry and new topics are introduced in their biological context wherever possible. Experimental design and the statistical analysis of data are emphasized at the end to ensure students are equipped to successfully plan their own experiments and examine the results obtained"--

Distinguished Aligs - Samina Salim 2018-08-06

Directory of Medical Specialists Certified by American Boards - 1983

Artificial Recharge Through a Well in Fissured Carbonate Rock, West St. Paul, Minnesota - Geological Survey (U.S.) 1976

Report describes an experiment and related tests in which treated water was injected into a fissured carbonate rock aquifer overlying a sandstone aquifer.

Pakistan Journal of History and Culture - 1990

Multihop Mobile Wireless Networks - Kannan Govindan 2010-10
Multihop Cellular Networks, Multihop Sensor Networks and Multihop Cellular Sensor Networks are fast-emerging, utilitarian multihop mobile networking paradigms that promise increased transmission rates and network capacity. Multihop Mobile Wireless Networks discusses issues pertaining to each of these networks and proposes novel and innovative algorithms on Scheduling, Routing and Data aggregation that are viable solutions for multihop mobile networks. Moreover, the book provides the preliminaries and an excellent review on existing approaches in wireless communications. Multihop Mobile Wireless Networks is suitable for academic and industrial research, and can be used for advanced courses in Senior Undergraduate and Graduate programs. The key findings of the book are: Multihop Cellular Networks (MCN): These networks, as compared to the existing single-hop cellular networks, provide higher throughput and capacity at lower transmission power requirements by effective spectral re-use. A novel route discovery and resilience protocol, as well as a probability of error based link Scheduling algorithm have been proposed in this book. Multihop Sensor Networks (MSN): Wireless Sensor Networks are inherently multihop in nature, due to the limited transmission range of resource-constrained sensor nodes. This book presents a novel multibit distributed data aggregation scheme, which minimizes in-network communication, for an event detection application. Multihop Cellular Sensor Networks (MCSN): Cell phones empowered with sensing capabilities have resulted in the emergence of Cellular Sensor Networks which can impact urban sensing applications in a profound sense. This book advocates multihopping in Cellular Sensor Networks and demonstrates its utility in a moving event localization application. Novel data aggregation and routing protocols which take into consideration the underlying mobility model and time-varying connectivity in MCSN have been proposed.

Magnetic Resonance Imaging - Robert W. Brown 2014-06-23
New edition explores contemporary MRI principles and practices

Thoroughly revised, updated and expanded, the second edition of *Magnetic Resonance Imaging: Physical Principles and Sequence Design* remains the preeminent text in its field. Using consistent nomenclature and mathematical notations throughout all the chapters, this new edition carefully explains the physical principles of magnetic resonance imaging design and implementation. In addition, detailed figures and MR images enable readers to better grasp core concepts, methods, and applications. *Magnetic Resonance Imaging, Second Edition* begins with an introduction to fundamental principles, with coverage of magnetization, relaxation, quantum mechanics, signal detection and acquisition, Fourier imaging, image reconstruction, contrast, signal, and noise. The second part of the text explores MRI methods and applications, including fast imaging, water-fat separation, steady state gradient echo imaging, echo planar imaging, diffusion-weighted imaging, and induced magnetism. Lastly, the text discusses important hardware issues and parallel imaging. Readers familiar with the first edition will find much new material, including: New chapter dedicated to parallel imaging New sections examining off-resonance excitation principles, contrast optimization in fast steady-state incoherent imaging, and efficient lower-dimension analogues for discrete Fourier transforms in echo planar imaging applications Enhanced sections pertaining to Fourier transforms, filter effects on image

resolution, and Bloch equation solutions when both rf pulse and slice select gradient fields are present Valuable improvements throughout with respect to equations, formulas, and text New and updated problems to test further the readers' grasp of core concepts Three appendices at the end of the text offer review material for basic electromagnetism and statistics as well as a list of acquisition parameters for the images in the book. Acclaimed by both students and instructors, the second edition of *Magnetic Resonance Imaging* offers the most comprehensive and approachable introduction to the physics and the applications of magnetic resonance imaging.

Semihypergroup Theory - Bijan Davvaz 2016-06-24

Semihypergroup Theory is the first book devoted to the semihypergroup theory and it includes basic results concerning semigroup theory and algebraic hyperstructures, which represent the most general algebraic context in which reality can be modelled. Hyperstructures represent a natural extension of classical algebraic structures and they were introduced in 1934 by the French mathematician Marty. Since then, hundreds of papers have been published on this subject. Offers the first book devoted to the semihypergroup theory Presents an introduction to recent progress in the theory of semihypergroups Covers most of the mathematical ideas and techniques required in the study of semihypergroups Employs the notion of fundamental relations to connect semihypergroups to semigroups