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Cement Chemistry-H. F. W. Taylor 1997 H F W Taylor was for many years Professor of Inorganic Chemistry at he University of Aberdeen, Scotland. Since 1948, his main research interest has been the chemistry of cement. His early work laid the foundations of our understanding of the structure at the nanometre level of C-S-H, the principal product formed when cement is mixed with water, and the one mainly reponsible for its hardening. Subsequent studies took him into many additional aspects of the chemistry and materials science of cement and concrete. His work has been recognized by Fellowships and by other honours and awards from many scientific societies in the UK, USA and elsewhere. This second edition of Cement chemistry addresses the chemistry and materials science of the principal silicate and aluminate cements used in building and Civil engineering. Emphasis throughout is on the underlying science. The book deals more specifically with the chemistry of Portland cement manufacture and the nature of the resulting product, the processes that occur when this product is mixed with water, the nature of the hardened material, the chemistry of other types of hydraulic cement, and chemical and microstructural aspects of concrete, including processes that affect its durability. Since the first edition of this book was published in 1990, research throughout the world has greatly augmented our knowledge in all of these areas. The present edition has been updated and revised to take account of these advances. The reader will acquire a solid understanding of the subject and will be better equipped to deal with the problems and pitfalls that can arise in engineering practice as a result of inadequate understanding of the relevant chemistry. It will serve both as an introduction to those entering the subject for the first time and as a guide to the latest developments for those already experienced in the field.

Diagnostic Neuroradiology-Valery N. Kornienko 2008-11-16 In this monograph, the authors summarize their findings in complex neuroimaging work (cranio-, spondylo-, myelo- and angiography as well as CT and MR imaging of the brain and spine) during their longstanding experience at the N. Burdenko Neurosurgical Institute in Moscow. The book begins with a review of modern neuroimaging techniques: CT and MR angiography, perfusion and diffusion imaging, tractography, spectroscopy and functional MR imaging. The problems and various other aspects of diagnosis of intra- and extra-axial brain tumors (more than 30,000 verified cases) as well as of cerebrovascular, infectious, demyelinating, degenerative and traumatic brain and spine lesions are discussed. The volume is well illustrated with angiographic, CT and MR images of complex diagnostic studies. The numerous images represent a "visual text," which can be used as an atlas by practical clinicians. This book is a comprehensive reference manual for neurologists, neurotraumatologists and radiologists. It may also be of interest to technicians, medical physiccists, students and other specialists interested in neurovisualization and diagnostic imaging.

Oxidative Stress and Space Biology An Organ-Based Approach-Melpo Christofidou-Solomidou 2018-05-04 This book is a printed edition of the Special Issue "Oxidative Stress and Space Biology: An Organ-Based Approach" that was published in IJMS

Geometric Control of Mechanical Systems-Francesco Bullo 2019-06-12 The area of analysis and control of mechanical systems using differential geometry is flourishing. This book collects many results over the last decade and provides a comprehensive introduction to the area.

The Diabetic Foot-Aristidis Veves 2006-01-01 Drawing on the experiences of diabetologists, vascular surgeons, infectious disease specialists, orthotists, plastic and orthopaedic surgeons, this book describes established techniques known to be effective. It provides information regarding the role of the increased inflammatory state of diabetes and the failure to heal the foot ulcer.

Statistical Regression and Classification-Norman Matloff 2017-09-19 Statistical Regression and Classification: From Linear Models to Machine Learning takes an innovative look at the traditional statistical regression course, presenting a contemporary treatment in line with today's applications and users. The text takes a modern look at regression: * A thorough treatment of classical linear and generalized linear models, supplemented with introductory material on machine learning methods. * Since classification is the focus of many contemporary applications, the book covers this topic in detail, especially the multiclass case. * In view of the voluminous nature of many modern datasets, there is a chapter on Big Data. * Has special Mathematical and Computational Complements sections at ends of chapters, and exercises are partitioned into Data, Math and Complements problems. * Instructors can tailor coverage for specific audiences such as majors in Statistics, Computer Science, or Economics. * More than 75 examples using real data. The book treats classical regression methods in an innovative, contemporary manner. Though some statistical learning methods are introduced, the primary methodology used is linear and generalized linear parametric models, covering both the Description and Prediction goals of regression methods. The author is just as interested in Description applications of regression, such as measuring the gender wage gap in Silicon Valley, as in forecasting tomorrow's demand for bike rentals. An entire chapter is devoted to measuring such effects, including discussion of Simpson's Paradox, multiple inference, and causation issues. Similarly, there is an entire chapter of parametric model fit, making use of both residual analysis and assessment via nonparametric analysis. Norman Matloff is a professor of computer science at the University of California, Davis, and was a founder of the Statistics Department at that institution. His current research focus is on recommender systems, and applications of regression methods to small area estimation and bias reduction in observational studies. He is on the editorial boards of the Journal of Statistical Computation and the R Journal. An award-winning teacher, he is the author of The Art of R Programming and Parallel Computation in Data Science: With Examples in R, C++ and CUDA.

Naval Courts and Boards-United States. Navy Department 1923

Spinal Reconstruction-Kai-Uwe Lewandrowski 2019-08-30 With an ever-expanding array of biomaterials and implant devices appearing in the field, Spinal Reconstruction: Clinical Examples of Applied Basic Science, Biomechanics and Engineering helps surgeons assess and utilize the latest technologies to improve the reconstruction of the spine and enhance the reconstitution of diseased spinal segments. With illustrative descriptions of specific clinical scenarios, this guide helps surgeons select the best devices and materials for reconstructive procedures and considers issues in biocompatibility, biostability, and structure-function relationships for enhanced patient outcomes and mobility. With more than 350 figures and photographs, this book: Details current strategies in minimally invasive spine surgery as currently applied to the lumbar spine Covers the myriad of patient factors, orthobiologic grafting alternatives, and technique-driven mechanical options encountered in spinal care and reconstruction Identifies new surgical techniques for spinal fusion, vertebral compression fractures, and arthroplasty Discusses the basic mechanisms and clinical application of currently

available operative treatments Supplies the most up-to-date information on the evaluation, diagnosis, and operative treatment of spinal pain, deformity, and disease

Farm Management-Andrew Boss 1914

3D Printing and Biofabrication-Aleksandr Ovsianikov 2017-10-23 This volume provides an in-depth introduction to 3D printing and biofabrication and covers the recent advances in additive manufacturing for tissue engineering. The book is divided into two parts, the first part on 3D printing discusses conventional approaches in additive manufacturing aimed at fabrication of structures, which are seeded with cells in a subsequent step. The second part on biofabrication presents processes which integrate living cells into the fabrication process.

Management of Differentiated Thyroid Cancer-Anne T. Mancino 2017-06-24 This text provides a comprehensive, state-of-the art review of this field, and serves as a valuable resource for clinicians, surgeons and researchers with an interest in thyroid cancer. The book reviews new data about molecular genetics and molecular diagnostic approaches, covers diagnosis and treatment of localized disease, and conventional and newer therapies for dealing with recurrent and metastatic disease. Areas of controversy, with expert opinions from both outlooks, are also covered. Management of Differentiated Thyroid Cancer serves as a very useful resource for physicians and researchers dealing with, and interested in, this challenging malignancy. It provides a concise yet comprehensive summary of the current status of the field that will help guide patient management and stimulate investigative efforts. All chapters are written by experts in their fields and include the most up-to-date scientific and clinical information.

Ghosts of Transparency-Michael R. Doyle 2019-09-23 In this book, the editors focus on architecture and communication from various different perspectives - taking into account that the term "architecture" is used for buildings as well as in the context of computer software. Data and software also impact on our cities; raw data, however, do not convey any information - in order to generate information and communication they have to be organized and must make sense to the reader. The contributions avoid clear separation of the various communication spheres of their disciplines. Instead, they use the wide range of approaches to explore meanings - an ambitious aim that leaves the destination wide open; the reader is invited to share in this adventure.

Theory Of Quantum Liquids-Philippe Nozieres 2018-03-05 This volume is devoted to the theory of superfluid quantum liquids, describing the Landau theory of a neutral Fermi liquid in order to illustrate, in comparatively elementary fashion, the way both quantum statistics and particle interaction determine system behavior.

Thoracic Malignancies- 2010-03-08 Thoracic Malignancies: Thoracic Malignancies is the first title in Radiation Medicine Rounds. These tumors take more lives than any others and they are among the most preventable of tumors. Thus it is crucial for the practitioner to be up-to-date on the latest insights regarding their management. Thoracic Malignancies addresses the multi-disciplinary nature of the care of these tumors. There is representation from radiation oncology, medical oncology, and surgery ensuring a well-rounded summarization of current practice. Included are chapters on lung cancer, esophageal cancer, and thymomas providing coverage of the vast majority of thoracic tumors. The multi-disciplinary nature of the articles provides readers with an up-to-date summary and a well-rounded review regarding these tumors and their care. Expert authors provide reviews and assessments of the most recent data and its implications for current clinical practice, along with insights into emerging new trends of importance for the near future. About the Series Radiation Medicine Rounds is an invited review publication providing a thorough analysis of new scientific, technologic, and clinical advances in all areas of radiation medicine. There is an emphasis throughout on multidisciplinary approaches to the specialty, as well as on quality and outcomes analysis. Published three times a year Radiation Medicine Rounds provides authoritative, thorough assessments of a wide range of hot topics and emerging new data for the entire specialty of radiation medicine. Features of Radiation Medicine Rounds include: Editorial board of nationally recognized experts across the spectrum of radiation medicine In-depth, up-to-date expert reviews and analysis of

major new developments in all areas of Radiation Medicine Issues edited by an authority in specific subject area Focuses on major topics in Radiation Medicine with in-depth articles covering advances in radiation science radiation medicine technology, radiation medicine practice, and assessment of recent quality and outcomes studies Emphasizes multidisciplinary approaches to research and practice

Acoustic Emission Testing-Christian U. Grosse 2008-07-12 Acoustic Emission (AE) techniques have been studied in civil engineering for a long time. The techniques are recently going to be more and more applied to practical applications and to be standardized in the codes. This is because the increase of aging structures and disastrous damages due to recent earthquakes urgently demand for maintenance and retrofit of civil structures in service for example. It results in the need for the development of advanced and effective inspection techniques. Thus, AE techniques draw a great attention to diagnostic applications and in material testing. The book covers all levels from the description of AE basics for AE beginners (level of a student) to sophisticated AE algorithms and applications to real large-scale structures as well as the observation of the cracking process in laboratory specimen to study fracture processes.

Interventional Nephrology-Alexander S. Yevzlin 2013-12-05 Interventional Nephrology: Principles and Practice describes a very direct approach to clinical problems encountered by the community of care providers who treat chronic kidney disease and dialysis patients. Practical scenarios faced on a day-to-day basis are presented by experts in the field utilizing the latest scientific information. In addition to internal medicine residents, nephrology fellows and practitioners, this comprehensive and useful resource is a must-have for the allied health professionals taking care of patients with hemodialysis and peritoneal dialysis access problems.

Neuroanatomical Basis of Clinical Neurology-Orhan E. Arslan 2014-08-07 Bridging the gap between the peripheral and central nervous systems, the second edition of Neuroanatomical Basis of Clinical Neurology enriches understanding of neurological conditions through a conceptual approach to neuronal circuitry. The book retains the basic outline of contents from the first edition, integrating structural organization with

Head and Neck Cancer-N. J. Roland 2011

Oral and Maxillofacial Medicine-Crispian Scully 2008 This second edition of 'Oral and Maxillofacial Medicine' continues to present the basics of the speciality in an accessible and digestible format. The book offers sound guidance on the whole range of common and potentially serious disorders that are routinely encountered in clinical practice.

Redescribing Relations-Ashley Lebnor 2017-05-01 Marilyn Strathern is among the most creative and celebrated contemporary anthropologists, and her work draws interest from across the humanities and social sciences. Redescribing Relations brings some of Strathern's most committed and renowned readers into conversation in her honour - especially on themes she has rarely engaged. The volume not only deepens our understanding of Strathern's work, it also offers models of how to extend her relational insights to new terrains. With a comprehensive introduction, a complete list of Strathern's publications and a historic interview published in English for the first time, this is an invaluable resource for Strathern's old and new interlocutors alike.

Orthogeriatrics-Paolo Falaschi 2016-09-19 This book focuses on orthogeriatrics, a topic that has received little attention in the literature to date. As active members of the Fragility Fracture Network (FFN), the editors and most of the authors of this book have gathered all essential expertise on hip fracture management in a single volume. The 14 chapters provide a complete overview of how to approach fractures in elderly patients, starting with the epidemiology of hip fractures and subsequently addressing osteoporosis, surgery, anesthesia, medical management of frailty, and peri-operative complications. Attention is also given to rehabilitation and nursing, as well as to the psychological evaluation of the patient and the caregivers, thus emphasizing the importance of a

multidisciplinary approach. Thanks to its clinical and practice-oriented nature, the book will especially be of interest to residents and young geriatricians, as well as orthopaedic surgeons, anesthesiologists and nurses dealing with elderly fracture patients in all parts of the world.

Needs and Opportunities in the Modern History of the U.S. Navy-Michael J. Crawford 2018 "This is a compilation of a series of papers presented in conjunction with a year-long lecture series sponsored by the Naval History and Heritage Command."--Provided by publisher.

New Horizons in Biotechnology-S. Roussos 2013-06-29 The practice of biotechnology, though different in style, scale and substance in globalizing science for development involves all countries. Investment in biotechnology in the industrialised, the developing, and the least developed countries, is now amongst the widely accepted avenues being used for economic development. The simple utilization of kefir technology, the detoxification of injurious chemical pesticides e.g. parathion, the genetic tailoring of new crops, and the production of a first of a kind of biopharmaceuticals illustrate the global scope and content of biotechnology research endeavour and effort. In the developing and least developed nations, and in which the 9 most populous countries are encountered, problems concerning management of the environment, food security, conservation of human health resources and capacity building are important factors that influence the path to sustainable development. Long-term use of biotechnology in the agricultural, food, energy and health sectors is expected to yield a windfall of economic, environmental and social benefits. Already the prototypes of new medicines and of prescription fruit vaccines are available. Gene based agriculture and medicine is increasingly being adopted and accepted. Emerging trends and practices are reflected in the designing of more efficient bioprocesses, and in new research in enzyme and fermentation technology, in the bioconversion of agro industrial residues into bio-utility products, in animal healthcare, and in the bioremediation and medical biotechnologies. Indeed, with each new day, new horizons in biotechnology beckon.

The Bipolar Brain-Stephen Strakowski 2012-07-26 In this book, experts in neuroimaging and genetics discuss recent discoveries in bipolar disorder, leading to an integrated neurophysiologic model of this condition. This model provides a substrate for future investigations to, hopefully, lead to better understanding of this illness in order to develop improved therapies for affected individuals.

Tendinopathy in Athletes-Savio L-Y. Woo 2008-04-15 This concise volume in the Encyclopaedia of Sports Medicine series, published under the auspices of the International Olympic Committee, provides a dependable source of current knowledge available on tendinopathy and covers both the basic science and clinical aspects of the subject. Despite its high incidence, the precise etiopathogenesis and effective treatment of tendinopathy remain elusive. Tendinopathy in Athletes draws on the expertise of an international and prolific collection of contributors, both clinicians and scientists, who provide new insights into this specialized area. This book: provides a comprehensive resource for both clinicians and researchers with information organized logically, with an easy-to-follow progression from the basic scientific findings to clinical applications discusses the full range of treatment modalities, including new molecular and biological approaches, plus surgical and alternative approaches to tendinopathy contains "What We Need to Know" sections that suggest future areas of research for young investigators. As tendinopathy remains one of the most common injuries encountered, both in sports and at the workplace, this essential volume is sure to be a source of frequent consultation.

Embedding Ethics-Lynn Meskell 2020-05-27 Anthropologists who talk about ethics generally mean the code of practice drafted by a professional association for implementation by its members. As this book convincingly shows, such a conception is far too narrow. A more radical approach is to recognize that moral judgments are made at every juncture of scientific practice and they require a negotiation of responsibility with all stakeholders in the research enterprise. Embedding Ethics questions why ethics have been divorced from scientific expertise. Invoking different disciplinary practices from biological, archaeological, cultural, and linguistic anthropology, contributors show how ethics should be resituated at the heart of, rather than exterior to, scientific activity. Positioning the researcher as a negotiator of significant truths rather than an adjudicator of a priori precepts

enables contributors to relocate ethics in new sets of social and scientific relationships triggered by recent globalization processes - from new forms of intellectual and cultural ownership to accountability in governance, and the very ways in which people are studied. Case studies from ethnographic research, museum display, archaeological fieldwork and professional monitoring illustrate both best practice and potential pitfalls. This important book is an essential guide for all anthropologists who wish to be active contributors to the discussion on ethics and the ethical practice of their profession.

Logistics Management-Jan Dethloff 2014-12-30 This book gathers papers presented at the Logistik-Management-Konferenz 2013, which was organized by the VHB Wissenschaftliche Kommission Logistik and held in Bremen, Germany. The papers reflect the current state-of-the-art in logistics and supply chain management, focusing on environmental sustainability in logistics and supply chain network dynamics and control. The target audience primarily consists of researchers and practitioners in the field, but the book may also be beneficial for graduate students.

Militarized Global Apartheid-Catherine Besteman 2020-10-23 In Militarized Global Apartheid Catherine Besteman offers a sweeping theorization of the ways in which countries from the global north are reproducing South Africa's apartheid system on a worldwide scale to control the mobility and labor of people from the global south. Exploring the different manifestations of global apartheid, Besteman traces how militarization and securitization reconfigure older forms of white supremacy and deploy them in new contexts to maintain this racialized global order. Whether using the language of security, military intervention, surveillance technologies, or detention centers and other forms of incarceration, these projects reinforce and consolidate the global north's political and economic interests at the expense of the poor, migrants, refugees, Indigenous populations, and people of color. By drawing out how this new form of apartheid functions and pointing to areas of resistance, Besteman opens up new space to theorize potential sources of liberatory politics.

Turning Dust to Gold-Haym Benaroya 2016-05-31 The expansion of our civilization to the Moon and beyond is now within our reach, technically, intellectually and financially. Apollo was not our last foray into the Solar System and already science fiction is finding it difficult to keep ahead of science and engineering fact. In 1807, few people anticipated the Wright Brothers' human flight a hundred years later. In 1869, only science fiction writers would have suggested landing people on the Moon in 1969. Similarly, other great inventions in mechanics and in electronics were not envisaged and therefore the technologies to which those inventions gave birth were only foreseen by a tiny group of visionaries.

Perfect Password-Mark Burnett 2006-01-09 User passwords are the keys to the network kingdom, yet most users choose overly simplistic passwords (like password) that anyone could guess, while system administrators demand impossible to remember passwords littered with obscure characters and random numerals. Every computer user must face the problems of password security. According to a recent British study, passwords are usually obvious: around 50 percent of computer users select passwords based on names of a family member, spouse, partner, or a pet. Many users face the problem of selecting strong passwords that meet corporate security requirements. Too often, systems reject user-selected passwords because they are not long enough or otherwise do not meet complexity requirements. This book teaches users how to select passwords that always meet complexity requirements. A typical computer user must remember dozens of passwords and they are told to make them all unique and never write them down. For most users, the solution is easy passwords that follow simple patterns. This book teaches users how to select strong passwords they can easily remember. * Examines the password problem from the perspective of the administrator trying to secure their network * Author Mark Burnett has accumulated and analyzed over 1,000,000 user passwords and through his research has discovered what works, what doesn't work, and how many people probably have dogs named Spot * Throughout the book, Burnett sprinkles interesting and humorous password ranging from the Top 20 dog names to the number of references to the King James Bible in passwords

Marine Renewable Energy Technology and Environmental Interactions-Mark A. Shields 2016-09-03 It is

now widely recognized that there is a need for long-term secure and suitable sustainable forms of energy. Renewable energy from the marine environment, in particular renewable energy from tidal currents, wave and wind, can help achieve a sustainable energy future. Our understanding of environmental impacts and suitable mitigation methods associated with extracting renewable energy from the marine environment is improving all the time and it is essential that we be able to distinguish between natural and anthropocentric drivers and impacts. An overview of current understanding of the environmental implications of marine renewable energy technology is provided.

Rock in the Reservation-Yngvar Bordewich Steinholt 2004

Honda Engine Swaps-Aaron Bonk 2007-02-01 When it comes to their personal transportation, today's youth have shunned the large, heavy performance cars of their parents' generation and instead embraced what has become known as the "sport compact"--smaller, lightweight, modern sports cars of predominantly Japanese manufacture. These cars respond well to performance modifications due to their light weight and technology-laden, high-revving engines. And by far, the most sought-after and modified cars are the Hondas and Acuras of the mid-'80s to the present. An extremely popular method of improving vehicle performance is a process known as engine swapping. Engine swapping consists of removing a more powerful engine from a better-equipped or more modern vehicle and installing it into your own. It is one of the most efficient and affordable methods of improving your vehicle's performance. This book covers in detail all the most popular performance swaps for Honda Civic, Accord, and Prelude as well as the Acura Integra. It includes vital information on electrics, fit, and drivetrain compatibility, design considerations, step-by-step instruction, and costs. This book is must-have for the Honda enthusiast.

Dialysis Therapy-Allen R. Nissenson 1993 A comprehensive reference covering all aspects of the clinical management of adult and child dialysis patients. This edition includes seven new chapters including one on EPO use in dialysis patients and one on the HIV positive patient.

Late-Life Depression-Steven P. Roose M.D. 2004-07-15 We live in an aging world. Illnesses that are prevalent and cause significant morbidity and mortality in older people will consume an increasing share of health care resources. One such illness is depression. This illness has a particularly devastating impact in the elderly because it is often undiagnosed or inadequately treated. Depression not only has a profound impact on quality of life but it is associated with an increased risk of mortality from suicide and vascular disease. In fact for every medical illness studied, e.g. heart disease, diabetes, cancer, individuals who are depressed have a worse prognosis. Research has illuminated the physiological and behavioral effects of depression that accounts for these poor outcomes. The deleterious relationship between depression and other illnesses has changed the concept of late-life depression from a "psychiatric disorder" that is diagnosed and treated by a psychiatrist to a common and serious disorder that is the responsibility of all physicians who care for patients over the age of 60. This is the first volume devoted to the epidemiology, phenomenology, psychobiology, treatment and consequences of late-life depression. Although much has been written about depressive disorders, the focus has been primarily on the illness as experienced in younger adults. The effects of aging on the brain, the physiological and behavioral consequences of recurrent depression, and the impact of other diseases common in the elderly, make late-life depression a distinct entity. There is a compelling need for a separate research program, specialized treatments, and a book dedicated to this disorder. This book will be invaluable to psychiatrists, gerontologists, clinical psychologists, social workers, students, trainees, and others who care for individuals over the age of sixty.

Advancement of Assistive Technology-Association for the Advancement of Assistive Technology in Europe 1997 People go traveling for two reasons: because they are searching for something, or they are running from

something. Katie's world is shattered by the news that her headstrong and bohemian younger sister, Mia, has been found dead at the bottom of a cliff in Bali. The authorities say that Mia jumped—that her death was a suicide. Although they'd hardly spoken to each other since Mia suddenly left on an around-the-world trip six months earlier, Katie refuses to accept that her sister would have taken her own life. Distraught that they never made peace, Katie leaves her orderly, sheltered life in London behind and embarks on a journey to find out the truth. With only the entries in Mia's travel journal as her guide, Katie retraces the last few months of her sister's life and—page by page, country by country—begins to uncover the mystery surrounding her death. . . . Weaving together the exotic settings and suspenseful twists of Alex Garland's *The Beach* with a powerful tale of familial love in the spirit of Rosamund Lupton's *Sister*, *Swimming at Night* is a fast-paced, accomplished, and gripping debut novel of secrets, loss, and forgiveness.

Geometric Control Theory-Velimir Jurdjevic 1997 A modern version of the calculus of variations, encompassing geometric mechanics, differential geometry, and optimal control.

Distributed Model Predictive Control Made Easy-José M. Maestre 2013-11-10 The rapid evolution of computer science, communication, and information technology has enabled the application of control techniques to systems beyond the possibilities of control theory just a decade ago. Critical infrastructures such as electricity, water, traffic and intermodal transport networks are now in the scope of control engineers. The sheer size of such large-scale systems requires the adoption of advanced distributed control approaches. Distributed model predictive control (MPC) is one of the promising control methodologies for control of such systems. This book provides a state-of-the-art overview of distributed MPC approaches, while at the same time making clear directions of research that deserve more attention. The core and rationale of 35 approaches are carefully explained. Moreover, detailed step-by-step algorithmic descriptions of each approach are provided. These features make the book a comprehensive guide both for those seeking an introduction to distributed MPC as well as for those who want to gain a deeper insight in the wide range of distributed MPC techniques available.

Imaging of the Knee-A. Mark Davies 2012-12-06 An up-to-date and comprehensive review of the discipline of imaging of the knee. The first part discusses the various techniques employed when imaging the knee. Individual chapters are devoted to radiography, arthrography, computed tomography and CT arthrography, magnetic resonance imaging and MR arthrography, and ultrasonography. The second part then documents the application of these techniques to the diverse clinical problems and diseases encountered in the knee. Among the many topics addressed are: congenital and developmental abnormalities, trauma, meniscal pathology, and others. Each chapter is written by an acknowledged expert in the field.

Quantum Continuous Variables-Alessio Serafini 2017-07-20 Quantum Continuous Variables introduces the theory of continuous variable quantum systems, from its foundations based on the framework of Gaussian states to modern developments, including its applications to quantum information and forthcoming quantum technologies. This new book addresses the theory of Gaussian states, operations, and dynamics in great depth and breadth, through a novel approach that embraces both the Hilbert space and phase descriptions. The volume includes coverage of entanglement theory and quantum information protocols, and their connection with relevant experimental set-ups. General techniques for non-Gaussian manipulations also emerge as the treatment unfolds, and are demonstrated with specific case studies. This book will be of interest to graduate students looking to familiarise themselves with the field, in addition to experienced researchers eager to enhance their understanding of its theoretical methods. It will also appeal to experimentalists searching for a rigorous but accessible treatment of the theory in the area.