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Functional Imaging and Modeling of the Heart Springer
This book presents the proceedings of CRIOCM 2016, 21st International Conference on Advancement of Construction Management and Real Estate, sharing the latest developments in real estate and construction management around the globe. The conference was organized by the Chinese Research Institute of Construction Management (CRIOCM) working in close collaboration with the University of Hong Kong. Written by international academics and professionals, the proceedings discuss the latest achievements, research findings and advances in frontier disciplines in the field of construction management and real estate. Covering a wide range of topics, including building information modelling, big data, geographic information systems, housing policies, management of infrastructure projects, occupational health and safety, real estate finance and economics, urban planning, and sustainability, the discussions provide valuable insights into the implementation of advanced construction project management and the real estate market in China and abroad. The book is an outstanding reference resource for academics and professionals alike.

Transesophageal Echocardiography for Congenital Heart Disease WWW.Militarybookshop.CompanyUK
This new edition presents an authoritative account of the current state of brain biomechanics research for engineers, scientists and medical professionals. Since the first edition in 2011, this topic has unquestionably entered into the mainstream of biomechanical research. The book brings together leading scientists in the diverse fields of anatomy, neuroimaging, image-guided neurosurgery, brain injury, solid and fluid mechanics, mathematical modelling and computer simulation to paint an inclusive picture of the rapidly evolving field. Covering topics from brain anatomy and imaging to sophisticated methods of modeling brain injury and neurosurgery (including the most recent applications of biomechanics to treat epilepsy), to the cutting edge methods in analyzing cerebrospinal fluid and blood flow, this book is the comprehensive reference in the field. Experienced researchers as well as students will find this book useful.

A Biography of Isaac Pitman (inventor of Phonography) Springer Science & Business Media
The Book Provides A Lucid And Step-By-Step Treatment Of The Various Principles And Methods For Solving Problems In Land Surveying. Each Chapter Starts With Basic Concepts And Definitions, Then Solution Of Typical Field Problems And Ends With Objective Type Questions.The Book Explains Errors In Survey Measurements And Their Propagation. Survey Measurements Are Detailed Next. These Include Horizontal And Vertical Distance, Slope, Elevation, Angle, And Direction. Measurement Using Stadia Tacheometry And Edm Are Then Highlighted, Followed By Various Types Of Levelling Problems. Traversing Is Then Explained, Followed By A Detailed Discussion On Adjustment Of Survey Observations And Then Triangulation And Trilateration.A Detailed Discussion On Various Types Of Curves And Their Setting Out Is Followed By Calculation Of Areas And Volumes. The Last Chapter Includes Point Location And Setting Out Works In Civil Engineering Projects. Suitable Illustrations And Worked Out Examples Are Included Throughout The Book. Selected Practice Problems Are Given At The End Of The Book.The Book Would Serve As An Excellent Text For Degree And Diploma Students Of Civil Engineering. Amie Candidates And Practicing Engineers Would Also Find This Book Extremely Useful.

Cardiovascular Physiology in the Genetically Engineered Mouse Springer Science & Business Media
This book is a practical guiding manual to explain critical clinical practice in three-dimensional (3D) echocardiography. The use of this technology has been limited to certain pioneer imaging units, but with the advent of lower cost hardware it is spreading and reaching more users that will start to use it often without previous experience or formal academic training. This title provides these readers with a full review of the features, clinical indications and methodological aspects of 3D echo in a practical, “ how-to-do-it ” way. 3D-echocardiography techniques are becoming more diverse, as they are applied to transthoracic and transesophageal studies, 3D-wall motion tracking, fusion of echocardiographic and fluoroscopy navigation, fusion of wall motion tracking and coronary tomography. All these aspects are described and explained deeply in this book.

The Voynich Manuscript Penguin UK
Discover new concepts in cardiovascular and hemodynamic functionality in fetο-maternal medicine, from leading experts in the field.

ASE’s Comprehensive Strain Imaging, E-Book Saunders
Designed for the 21st century classroom, this textbook poses, refines, and analyzes questions of sustainability in a quantitative environment. Building mathematical knowledge in the context of issues relevant to every global citizen today, this text takes an approach that empowers students of all disciplines to understand and reason with quantitative information. Whatever conclusions may be reached on a given topic, this book will prepare the reader to think critically about their own and other people’s arguments and to support them with careful, mathematical reasoning. Topics are grouped in themes of measurement, flow, connectivity, change, risk, and decision-making. Mathematical thinking is at the fore throughout, as students learn to

model sustainability on local, regional, and global scales. Exercises emphasize concepts, while projects build and challenge communication skills. With no prerequisites beyond high school algebra, instructors will find this book a rich resource for engaging all majors in the mathematics classroom. From the Foreword No longer will you be just a spectator when people give you quantitative information—you will become an active participant who can engage and contribute new insights to any discussion.[...] There are many math books that will feed you knowledge, but it is rare to see a book like this one that will help you cultivate wisdom.[...] As the authors illustrate, mathematics that pays attention to human considerations can help you look at the world with a new lens, help you frame important questions, and help you make wise decisions. Francis Edward Su, Harvey Mudd College
Mathematics for Sustainability Manual of 3D Echocardiography
In step with our growing lifespan, dementia is becoming a widespread handicap to the health and well-being of individuals and a burden on human society world-wide. The increasing prevalence of this tragic condition has stimulated an explosion of scientific research in the last ten years, which resulted in numerous profound insights and technical innovations. This timely volume presents both an overall and a detailed overview of the current worldwide knowledge about the neuroscientific basis of dementia. Leading authorities in their fields provide a far-reaching synthesis of all topics in dementia research, including pathogenesis of dementia, neuroimaging of the earliest alterations, potential biological and genetic markers for Alzheimer’s Disease and new therapeutic strategies. Each chapter discusses clinical implications and areas of controversy, highlights the wide range of current and future therapeutic possibilities and indicates promising directions for further research...

U.S. Government Printing Office Style Manual Humana Press
Transesophageal Echocardiography for Congenital Heart Disease represents a unique contribution as the only contemporary reference to focus exclusively on the clinical applications of transesophageal echocardiography (TEE) in congenital heart disease (CHD). Written by numerous prominent specialists and renowned leaders in the field, it presents a comprehensive, modern, and integrated review of the subject in light of the cumulative experience and most recent advances in the technology. Topics related to CHD include: (1) physics and instrumentation of TEE, particularly as they apply to the structural evaluation; (2) specialized aspects of the examination, with emphases on technical considerations pertinent to both pediatric and adult patients with congenital cardiovascular pathology; (3) segmental approach to diagnosis and functional assessment; (4) extensive discussion of the TEE evaluation of the many anomalies encompassing the CHD spectrum; (5) use of the imaging modality in the perioperative and interventional settings; and (6) important aspects of 3D TEE evaluation. Richly illustrated by more than 700 figures/illustrations and 400 videos, this textbook will serve as an indispensable resource for all who use TEE in the care of both children and adults with CHD, from the novice to the expert.

Maternal Hemodynamics Springer Nature
This book is a comprehensive guide to contrast-enhanced mammography (CEM), a novel advanced mammography technique using dual-energy mammography in combination with intravenous contrast administration in order to increase the diagnostic performance of digital mammography. Readers will find helpful information on the principles of CEM and indications for the technique. Detailed attention is devoted to image interpretation, with presentation of case examples and highlighting of pitfalls and artifacts. Other topics to be addressed include the establishment of a CEM program, the comparative merits of CEM and MRI, and the roles of CEM in screening populations and monitoring of response to neoadjuvant chemotherapy. CEM became commercially available in 2011 and is increasingly being used in clinical practice owing to its superiority over full-field digital mammography. This book will be an ideal source of knowledge and guidance for all who wish to start using the technique or to learn more about it.

Core Topics in Transesophageal Echocardiography John Wiley & Sons
The main aim of this book is to evaluate the concept of stress and provide tools for physicians to identify patients who might benefit from stress management. This will incorporate a detailed description of the physiological and pathophysiological consequences of acute and chronic stress that might lead to cardiovascular disease. The book will aim to critically evaluate interventional research (behavioural and other therapies) and provide evidence based recommendations on how to manage stress in the cardiovascular patient. Our intentions are to define and highlight stress as an etiological factor for cardiovascular disease, and to describe an evidence based "tool box" that physicians may use to identify and manage patients in whom stress may be an important contributing factor for their disease and their risk of suffering cardiovascular complications.

3D Echocardiography Springer Science & Business Media
In the past two decades a number of studies have shown that abnormalities in the function and structure of coronary microcirculation can be detected in several cardiovascular diseases. On the basis of the clinical setting in which it occurs, coronary microvascular dysfunction (CMD) can be classified into four types: CMD in the absence of any other cardiac disease; CMD in myocardial diseases; CMD in obstructive epicardial coronary artery disease; and iatrogenic CMD. In some instances CMD represents an epiphenomenon, whereas in others it represents an important marker of risk or may contribute to the pathogenesis of myocardial ischemia, thus becoming a possible therapeutic target. This book provides an update on coronary physiology and a systematic assessment of microvascular abnormalities in cardiovascular diseases, in the hope that it will assist clinicians in prevention, detection and management of CMD in their everyday activity.

Stress and Cardiovascular Disease Cambridge University Press
This extensive clinically focused book is a detailed practical 3D echocardiography imaging reference that addresses the concerns and needs of both the novice and experienced 3D echocardiographer. Chapters have been written in a highly instructive and practical disease- and

problem-oriented approach supported by illustrative high-quality images (and corresponding 3D echo video clips where applicable) that demonstrate the incremental value of 3D echocardiography over 2D echocardiography in practice. Practical 3D Echocardiography is an intuitive guide to 3D imaging – what to look for, how to look for it, the best and special views, caveats and pitfalls when applicable, and clinical pearls and pointers – that can be used in daily practice. It is therefore of immense value to any practicing or trainee echocardiographer, cardiologist and internist.

Coronary Microvascular Dysfunction St. Martin's Griffin

Designed to accompany Nelson Textbook of Pediatrics and Nelson Essentials of Pediatrics, Pediatric Decision-Making Strategies is a concise, user-friendly reference uses a unique algorithmic approach to facilitate diagnosis, testing, and basic treatment of common pediatric disorders. For any given symptom, an algorithm guides the reader through the appropriate investigative procedures and lab tests to reach definitive diagnoses. An updated format that enhances usability makes this medical reference book a must-have for medical students, residents, and practitioners treating pediatric patients. Explore concise, focused, and updated algorithms that cover the most common pediatric problems. Gain imperative knowledge from an expert author team that includes Dr. Robert M. Kliegman (of the Nelson line of textbooks), as well as references to related chapters in both Nelson Textbook of Pediatrics and Nelson Essentials of Pediatrics. Quickly access important information with a new standard format and trim size for practicality and usability. Expert Consult eBook version included with purchase. This enhanced eBook experience allows you to search all of the text, figures, algorithms, and references from the book on a variety of devices.

Independent and Weekly Review Springer Science & Business Media

The enormous advances in molecular biology and genetics coupled with the progress in instrumentation and surgical techniques have produced a voluminous and often bewildering quantity of data. The need for a second edition of Cardiovascular Physiology in the Genetically Engineered Mouse is underscored not only by these rapid advances, but by the increasing numbers of scientists who have focussed their research on genetically engineered mice. It is the primary objective of this second edition to interpret critically the literature and to provide a framework for the enormous amount of information in this burgeoning field. As in the first edition, the monograph serves as a practical guide for the investigator interested in the functional methods used to characterize the murine cardiovascular phenotype. However, this guidebook is a more comprehensive text than its predecessor; although the major objectives enumerated in the first edition have not substantially changed, they have been refined in keeping with the increased sophistication of the molecular biologist, geneticist, and physiologist in each other's discipline. Each chapter has been expanded and updated, richly enhanced with original tables and figures, and in many cases, extensively rewritten. Eight chapters written by internationally recognized experts have been added; this represents a 43 % increase from the first edition.

Understanding Statistics in the Behavioral Sciences Springer

One of the most significant works of Western philosophy, Hume's Treatise was published in 1739-40, before he was thirty years old. A pinnacle of English empiricism, it is a comprehensive attempt to apply scientific methods of observation to a study of human nature, and a vigorous attack upon the principles of traditional metaphysical thought. With masterly eloquence, Hume denies the immortality of the soul and the reality of space; considers the manner in which we form concepts of identity, cause and effect; and speculates upon the nature of freedom, virtue and emotion. Opposed both to metaphysics and to rationalism, Hume's philosophy of informed scepticism sees man not as a religious creation, nor as a machine, but as a creature dominated by sentiment, passion and appetite.

Funology Springer

It is a pleasure to contribute the foreword to Introduction to Cell and Tissue Culture: The ory and Techniques by Mather and Roberts. Despite the occasional appearance of thought ful works devoted to elementary or advanced cell culture methodology, a place remains for a comprehensive and definitive volume that can be used to advantage by both the novice and the expert in the field. In this book, Mather and Roberts present the relevant method ology within a conceptual framework of cell biology, genetics, nutrition, endocrinology, and physiology that renders technical cell culture information in a comprehensive, logical for mat. This allows topics to be presented with an emphasis on troubleshooting problems from a basis of understanding the underlying theory. The material is presented in a way that is adaptable to student use in formal courses; it also should be functional when used on a daily basis by professional cell culturists in a- demia and industry. The volume includes references to relevant Internet sites and other use ful sources of information. In addition to the fundamentals, attention is also given to mod ern applications and approaches to cell culture derivation, medium formulation, culture scale-up, and biotechnology, presented by scientists who are pioneers in these areas. With this volume, it should be possible to establish and maintain a cell culture laboratory devot ed to any of the many disciplines to which cell culture methodology is applicable.

A Treatise of Human Nature John Wiley & Sons

Based on over 30 years of successful teaching experience in this course, Robert Pagano's introductory text takes an intuitive, concepts-based approach to descriptive and inferential statistics. He uses the sign test to introduce inferential statistics, empirically derived sampling distributions, many visual aids, and lots of interesting examples to promote student understanding. One of the hallmarks of this text is the positive feedback from students -- even students who are not mathematically inclined praise the text for its clarity, detailed presentation, and use of humor to help make concepts accessible and memorable. Thorough explanations precede the introduction of every formula, and the exercises that immediately follow include a step-by-step model that lets students compare their work against fully solved examples. This combination makes the text perfect for students taking their first statistics course in psychology or other social and behavioral sciences. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Post-Intensive Care Syndrome Springer Science & Business Media

Covers the latest insights any fetal specialist needs and provides essential knowledge for professionals caring for women with high-risk pregnancies.

A Bond Undone Springer Science & Business Media

A comprehensive review of the latest fingerprint development and imaging techniques With contributions from leading experts in the field, Fingerprint Development Techniques offers a comprehensive review of the key techniques used in the development and imaging of fingerprints. It includes a review of the properties of fingerprints, the surfaces that fingerprints are deposited on, and the interactions that can occur between fingerprints, surfaces and environments. Comprehensive in scope, the text explores the history of each process, the theory behind the way fingerprints are either developed or imaged, and information about the role of each of the chemical constituents in recommended formulations. The authors explain the methodology employed for carrying out comparisons of effectiveness of various development techniques that clearly demonstrate how to select the most effective approaches. The text also explores how techniques can be used in sequence and with techniques for recovering other forms of forensic evidence. In addition, the book offers a guide for the selection of fingerprint development techniques and includes information on the influence of surface contamination and exposure conditions. This important resource: Provides clear methodologies for conducting comparisons of fingerprint development technique effectiveness Contains in-depth assessment of fingerprint constituents and how they are utilized by development and imaging processes Includes background

information on fingerprint chemistry Offers a comprehensive history, the theory, and the applications for a broader range of processes, including the roles of each constituent in reagent formulations Fingerprint Development Techniques offers a comprehensive guide to fingerprint development and imaging, building on much of the previously unpublished research of the Home Office Centre for Applied Science and Technology.

Practical Urological Ultrasound Birkhäuser

This book, part of the European Society of Intensive Care Medicine textbook series, provides detailed up-to-date information on the physical, cognitive, and psychological impairments that are frequently present following a stay in an intensive care unit and examines in depth the available preventive and therapeutic strategies, including adapted rehabilitation programs. Beyond acquainting readers with the multiple facets of post-intensive care syndrome (PICS), the book aims to promote the effective follow-up of patients, thereby enhancing their ability to work and their functional autonomy, and to identify risk factors for the development of PICS as a stimulus to beneficial organizational changes in intensive care departments. The background to the book is the realization by healthcare providers that the quality of life of patients who have required a stay in an intensive care unit can be severely impaired or even become unacceptable. All too often, the diverse sequelae are overlooked by specialists of other disciplines. Moreover, families and caregivers are also at high risk of post-traumatic stress disorder and depression. The European Society of Intensive Care Medicine has developed the Lessons from the ICU series with the vision of providing focused and state-of-the-art overviews of central topics in Intensive Care and optimal resources for clinicians working in Intensive Care. This book, written by renowned experts in the field, will facilitate the transmission of key knowledge with significant clinical and financial benefits.