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The Laryngectomee Guide Expanded Edition Itzhak Brook 2018-01-09 The 254 pages expanded Laryngectomy Guide is an updated and revised edition of the original Laryngectomee Guide. It provides information that can assist laryngectomees and their caregivers with medical, dental and psychological issues. It contains information about side effects of radiation and chemotherapy; methods of speaking; airway, stoma, and voice prosthesis care; eating and swallowing; medical, dental and psychological concerns; respiration; anesthesia; and travelling.

Textbook of Interventional Cardiology Eric J. Topol 1999 The 3rd Edition of this respected resource provides a comprehensive, detailed, up-to-date, and clinically oriented discussion of all aspects of percutaneous coronary revascularization. More than 60 international pioneers and leaders in the field offer practical, evidence-based guidance on treating a full range of coronary lesions. They discuss the very latest techniques, devices, and adjunctive therapies, and offer critical appraisals of emerging therapeutic approaches.

Diagnosis and Management of Adult Congenital Heart Disease E-Book Michael A. Gatzoulis 2017-02-02 Designed to meet the needs of clinicians working with adults with congenital heart disease, *Diagnosis and Management of Adult Congenital Heart Disease*, by Drs. Michael A. Gatzoulis, Gary D. Webb, and Piers E. F. Daubeney, offers essential guidance on the anatomical issues, clinical presentation, diagnosis, and treatment options available to practitioners today. This latest edition features completely updated content, including new information for nurses and nurse practitioners who, now more than ever, are playing an important role in the care of adults with CHD. You'll also access four new chapters, illustrated congenital defects, coverage of long-term outcomes, and much more. Drs. Gatzoulis, Webb, and Daubeney lead a team of experts ideally positioned to provide state-of-the-art global coverage of this increasingly important topic. Each disease-oriented chapter is written to a highly structured template and provides key information on incidence, genetics, morphology, presentation, investigation and imaging, and treatment and intervention. Congenital defects are illustrated with full-color line drawings and by the appropriate imaging modality (for example, EKG, x-ray, echocardiogram, MRI, CT,). Provides coverage of long-term outcomes, including the management of pregnant patients and patients undergoing non-cardiac surgery. Features the addition of four new chapters: A Historic Perspective; Quality of Life in Patients with Pulmonary Hypertension; Psychosocial Issues in ACHD; Supportive and Palliative Care for End-Stage ACHD.

Helping Children Learn Mathematics National Research Council 2002-07-31 Results from national and international assessments indicate that school children in the United States are not learning mathematics well enough. Many students cannot correctly apply computational algorithms to solve problems. Their understanding and use of decimals and fractions are especially weak. Indeed, helping all children succeed in mathematics is an imperative national goal. However, for our youth to succeed, we need to change how we teach this discipline. *Helping Children Learn Mathematics* provides comprehensive and reliable information that will guide efforts to improve school mathematics from pre-kindergarten through eighth grade. The authors explain the five strands of mathematical proficiency and discuss the major changes that need to be made in mathematics instruction, instructional materials, assessments, teacher education, and the broader educational system and answers some of the frequently asked questions when it comes to mathematics instruction. The book concludes by providing recommended actions for parents and caregivers, teachers, administrators, and policy makers, stressing the importance that everyone work together to ensure a mathematically literate society.

Origametry Thomas C. Hull 2020-10-31 Written by a world expert on the subject, Origametry is the first complete reference on the mathematics of origami. It is an essential reference for researchers of origami mathematics and applications in physics, engineering, and design. Educators, students, and enthusiasts will also enjoy this fascinating account of the mathematics of folding.

Textbook of Clinical Echocardiography Catherine M. Otto 2013 Textbook of Clinical Echocardiography, 5th Edition enables you to use echocardiography to its fullest potential in your initial diagnosis, decision making, and clinical management of patients with a wide range of heart diseases. World-renowned cardiologist Dr. Catherine M. Otto helps you master what you need to know to obtain the detailed anatomic and physiologic information that can be gained from the full range of echo techniques, from basic to advanced. Get straightforward explanations of ultrasound physics, image acquisition, and major techniques and disease categories - all with a practical, problem-based approach. Make the most of this versatile, low-cost, low-risk procedure with expert guidance from one of the foremost teachers and writers in the field of echocardiography. Know what alternative diagnostic approaches to initiate when echocardiography does not provide a definitive answer. Access the entire text online at www.expertconsult.com, as well as echo video recordings that correspond to the still images throughout the book. Acquire a solid foundation in the essentials of advanced echocardiography techniques such as contrast echo, 3D echo, myocardial mechanics, and intraoperative transesophageal echocardiography. Fully understand the use of echocardiography and its outcomes with key points that identify the must-know elements in every chapter, and state-of-the-art echo images complemented by full-color comparative drawings of heart structures. Familiarize yourself with new ASE recommendations for echocardiographic assessment of the right heart and 3D echocardiography, including updated tables of normal measurements.

Dissertation Abstracts International 1987

Remote Sensing of Hydrometeorological Hazards George P. Petropoulos 2017-11-02 Extreme weather and climate change aggravate the frequency and magnitude of disasters. Facing atypical and more severe events, existing early warning and response systems become inadequate both in scale and scope. Earth Observation (EO) provides today information at global, regional and even basin scales related to agrometeorological hazards. This book focuses on drought, flood, frost, landslides, and storms/cyclones and covers different applications of EO data used from prediction to mapping damages as well as recovery for each category. It explains the added value of EO technology in comparison with conventional techniques applied today through many case studies.

Heart Failure in the Child and Young Adult John L. Jefferies 2017-12-05 Heart Failure in the Child and Young Adult: From Bench to Bedside combines multiple etiologies for pediatric heart failure, including congenital heart disease, cardiomyopathies, infectious diseases and metabolic abnormalities. This comprehensive resource combines research from multiple contributors with current guidelines to bridge the knowledge gap for the recognition and management of heart failure in children. Coverage begins with the basic science of heart failure, then progresses through diagnosis, management, treatment and surgery, finally concluding with advanced special topics, including genetics, self-management and nanomedicine. Provides coverage of the basic science of heart failure, its epidemiology and economic aspects, outpatient and inpatient management, and advanced therapies, including mechanical circulatory support and heart transplantation Combines cutting-edge research with current guidelines in the field

Pre-Algebra, Study Guide & Intervention Workbook McGraw-Hill Education 2008-12-10 Study Guide and Intervention/Practice Workbook provides vocabulary, key concepts, additional worked out examples and exercises to help students who need additional instruction or who have been absent.

Visual Complex Analysis Tristan Needham 1998 This radical approach to complex analysis replaces the standard calculational arguments with new geometric ones. Using several hundred diagrams this is a new visual approach to the topic.

Common Core Geometry Kirk Weiler 2018-04

Geometry, Student Edition McGraw-Hill Education 2012-07-16 - The only program that supports the Common Core State Standards throughout four-years of high school mathematics with an unmatched depth of resources and adaptive technology that helps you differentiate instruction for every student. * Connects students to math content with print, digital and interactive resources. * Prepares students to meet the rigorous Common Core Standards with aligned content and focus on Standards of Mathematical Practice. * Meets the needs of every student with resources that enable you to tailor your instruction at the classroom and individual level. * Assesses student mastery and achievement with dynamic, digital assessment and reporting. Includes Print Student Edition **Catheter Based Valve and Aortic Surgery** Gorav Ailawadi 2016-04-28 This text provides a comprehensive, state-of-the-art review of catheter based approaches to valve and aortic diseases. The scope encompasses involve all the current and upcoming transcatheter aortic valve technologies as well as mitral, pulmonary and tricuspid valve technologies. Aortic diseases including transcatheter repair of descending aneurysms are included and the upcoming technologies designed to repair aortic dissections, traumatic injury, and ascending arch stent repair are highlighted. Catheter Based Valve and Aortic Surgery will be a useful tool for cardiac and vascular surgeons, interventional cardiologists, general cardiologists, and clinicians and researchers with an interest in these exciting new developments in structural heart and vascular diseases.

International Textbook of Diabetes Mellitus R. A. DeFronzo 2015-03-05 The International Textbook of Diabetes Mellitus has been a successful, well-respected medical textbook for almost 20 years, over 3 editions. Encyclopaedic and international in scope, the textbook covers all aspects of diabetes ensuring a truly multidisciplinary and global approach. Sections covered include epidemiology, diagnosis, pathogenesis, management and complications of diabetes and public health issues worldwide. It incorporates a vast amount of new data regarding the scientific understanding and clinical management of this disease, with each new edition always reflecting the substantial advances in the field. Whereas other diabetes textbooks are primarily clinical with less focus on the basic science behind diabetes, ITDM's primary philosophy has always been to comprehensively cover the basic science of metabolism, linking this closely to the pathophysiology and clinical aspects of the disease. Edited by four world-famous diabetes specialists, the book is divided into 13 sections, each section edited by a section editor of major international prominence. As well as covering all aspects of diabetes, from epidemiology and pathophysiology to the management of the condition and the complications that arise, this fourth edition also includes two new sections on NAFLD, NASH and non-traditional associations with diabetes, and clinical trial evidence in diabetes. This fourth edition of an internationally recognised textbook will once again provide all those involved in diabetes research and development, as well as diabetes specialists with the most comprehensive scientific reference book on diabetes available.

Math Instruction for Students with Learning Difficulties Susan Perry Gurganus 2021-11-30 This richly updated third edition of Math Instruction for Students with Learning Difficulties presents a research-based approach to mathematics instruction designed to build confidence and competence in preservice and inservice PreK-12 teachers. Referencing benchmarks of both the National Council of Teachers of Mathematics and Common Core State Standards for Mathematics, this essential text addresses teacher and student attitudes towards mathematics as well as language issues, specific mathematics disabilities, prior experiences, and cognitive and metacognitive factors. Chapters on assessment and instruction precede strands that focus on critical concepts. Replete with suggestions for class activities and field extensions, the new edition features current research across topics and an innovative thread throughout chapters and strands: multi-tiered systems of support as they apply to mathematics instruction.

Valvular Heart Disease: A Companion to Braunwald's Heart Disease E-Book Catherine M. Otto 2014-01-15 Internationally renowned cardiologists Drs.

Catherine M. Otto and Robert O. Bonow help you to apply all of the latest scientific knowledge and clinical strategies with Valvular Heart Disease, a companion to Braunwald's Heart Disease. This indispensable resource for your everyday practice provides all of the knowledge you need to give your patients the most accurate diagnoses, the best possible heart disease treatment options, and the expert care they deserve. Consult this title on your favorite e-reader, conduct rapid searches, and adjust font sizes for optimal readability. Compatible with Kindle®, nook®, and other popular devices. Apply today's best medical and surgical approaches with comprehensive, expert guidance on today's full range of clinical heart disease treatments. Provide appropriate care to pediatric and pregnant patients with focused chapters on the unique needs of these special populations. Update your knowledge of these increasingly common heart diseases with brand-new chapters covering 3-dimensional anatomy of the aortic and mitral valves; clinical and genetic risk factors for calcific valve disease; risk assessment for aortic and mitral valve surgery; image-guided transcatheter valve procedures; optimal timing of valve interventions; state-of-the-art valve surgery; and much more. Apply the most current standards of practice with summaries of the ACC/AHA and new ESC valvular heart disease guidelines in each chapter. Vividly visualize heart valve anatomy and dysfunction, as well as important techniques and procedures, thanks to a multitude of detailed illustrations, full-color images, and online video content. Search the full text and access all the images online at Expert Consult.

The Practice of Clinical Echocardiography Catherine M. Otto 2012 In Practice of Clinical Echocardiography, world-renowned authority Dr. Catherine M. Otto offers expert guidance on interpreting echocardiographic images and Doppler flow data and applying your findings to your daily clinical decision making. This medical reference book keeps you current on the latest advances and techniques, so you can implement the best possible approaches with your patients! Master the challenging practice of echocardiography through clear explanations of advanced concepts.. Reinforce your learning with a visually rich reference that includes abundant figures and tables to supplement the text. Utilize the most promising approaches for your patients with coverage of all echocardiography modalities, including contrast and 3-D echocardiography. Zero in on the critically important information and get a quick summary for review thanks to key points at the end of each chapter and a disease-oriented assessment of echocardiographic data. Access the complete contents online from your laptop or mobile device - anytime, anywhere - plus clinical cases, multiple-choice questions, videos, and eFigures at www.expertconsult.com! Stay current on the latest advances with a new chapter on echo-guided interventions for structural heart disease, extensive coverage of technical aspects of image and data acquisition, and many other essential updates. Master the practice of clinical echocardiography with Dr. Catherine M. Otto's best-selling text.

Echocardiography Board Review Ramdas G. Pai 2014-05-12 Echocardiography Board Review, 2nd Edition 500 Multiple Choice Questions with Discussion Ramdas G. Pai, MD, Professor of Medicine, Loma Linda University, CA, USA Padmini Varadarajan, MD, Associate Professor of Medicine, Loma Linda University, CA, USA Echocardiography is an essential tool for the modern-day cardiologist and routinely used in the diagnosis, management and follow-up of patients with suspected or known heart diseases. This best-selling book now returns in a fully revised new edition, once again providing cardiologists and cardiology/echocardiography trainees with a rapid reference, self-assessment question and answer guide to all aspects of echocardiography. Packed with full-color images and written by experienced echocardiographers, the book covers: applied ultrasound physics practical hydrodynamics valvular heart disease myocardial diseases congenital heart disease non-invasive hemodynamics surgical echocardiography Containing 500 case-based questions, including clear explanations and discussions for every question, Echocardiography Board Review, 2nd Edition, is the perfect preparation guide for all those about to take the National Board of Echocardiography's Board exam, including cardiology and echocardiography trainees and specialist physicians preparing for re-certification. Sonographers planning to take RDCS or RDMS certification examinations should find this book very helpful as well. Of related interest Practical Manual of Echocardiography in the Urgent Setting Fridman, ISBN 978-0-470-65997-7 Successful Accreditation in Echocardiography: A Self-Assessment Guide Banypersad, ISBN 978-0-470-65692-1 Website www.wiley.com/go/cardiology

Practice of Clinical Echocardiography E-Book Catherine M. Otto 2012-03-15 In Practice of Clinical Echocardiography, world-renowned authority Dr. Catherine M. Otto offers expert guidance on interpreting echocardiographic images and Doppler flow data and applying your findings to your daily clinical decision making. This medical reference book keeps you current on the latest advances and techniques, so you can implement the best possible approaches with your patients! Master the challenging practice of echocardiography through clear explanations of advanced concepts.. Reinforce your learning with a visually rich reference that includes abundant figures and tables to supplement the text. Utilize the most promising approaches for your patients with coverage of all echocardiography modalities, including contrast and 3-D echocardiography. Zero in on the critically important information and get a quick summary for review thanks to key points at the end of each chapter and a disease-oriented assessment of echocardiographic data. Access the complete contents online from your laptop or mobile device - anytime, anywhere - plus clinical cases, multiple-choice questions, videos, and eFigures at www.expertconsult.com! Stay current on the latest advances with a new chapter on echo-guided interventions for structural heart disease, extensive coverage of technical aspects of image and data acquisition, and many other essential updates.

Aortopathy Koichiro Niwa 2017-02-09 This is the first textbook to focus on Aortopathy, a new clinical concept for a form of vasculopathy. The first section of the book starts from discussing general concept and history of Aortopathy, and then deals with its pathophysiology, manifestation, intrinsic factor, clinical implication, management and prevention. The second part closely looks at various disorders of the Aortopathy such as bicuspid aortic valve and coarctation of aorta. The book editors have published a lot of works on the topic and have been collecting relating data in the field of congenital heart disease for the past 20 years, thus present the book with confidence. The topic - an association of aortic pathophysiological abnormality, aortic dilation and aorto-left ventricular interaction - is getting more and more attention among cardiovascular physicians. This is the first book to refer for cardiologists, pediatric cardiologists, surgeons, ACHD specialists, etc. to acquire thorough knowledge on Aortopathy.

Diagnosis and Treatment of Aortic Diseases C.A. Nienaber 1999-03-31 Describes recent surgical techniques developed to improve prognosis in aortic diseases, and discusses recent interventional strategies such as endovascular stent-graft placement and non-surgical reconstruction of the aorta. Chapters deal with

aortic dissection, aortic aneurysm, surgical treatment of aortic aneurysms and dissections, inherited disorders of the aorta, aortic trauma, aortitis, and etiology and pathology of aortic malformations. Each chapter is organized in a similar fashion, with information on demographic aspects, pathology, clinical presentation, and diagnostic and therapeutic approaches. Annotation copyrighted by Book News, Inc., Portland, OR *Conn's Current Therapy 2011* Edward T. Bope 2010 Conn's Current Therapy 2011 is an easy-to-use, in-depth guide to the latest advances in therapeutics for common complaints and diagnoses. Drs. Edward T. Bope, Rick D. Kellerman, and Robert E. Rakel present the expertise and knowledge of hundreds of skilled international leaders on the full range of evidence-based management options. With coverage of recent developments in travel medicine, sleep apnea, and immunization practices, as well as standardized diagnostic points and clinical recommendation tables, you'll have access to the information you need, in print and online at www.expertconsult.com. Access the fully searchable contents online at www.expertconsult.com. Deliver effective treatment after making correct diagnoses through discussions of important diagnostic criteria in each chapter. Get the best, most practical and accurate advice from acknowledged expert contributors. Apply best practices from around the world from coverage of management methods used by international experts. Stay current with recent developments in travel medicine, sleep apnea, immunization practices, and much more. Know the full range of treatment options through coverage of the latest information on recently-approved and soon-to-be-approved drugs. Tap into the guidance of experts for practical and accurate advice on diagnosis and management. Find the answers you need more easily with standardized Current Diagnostic Points and Current Therapy clinical recommendation tables. Accurately code for reimbursement using an up-to-date ICD-9 list of common diseases and codes. Conn's Current Therapy provides faster access to the latest therapeutic treatment

Pre-Algebra, Word Problems Practice Workbook McGraw-Hill Education 2006-08-03 Word Problems Practice Workbook

Rutherford's Vascular Surgery and Endovascular Therapy, E-Book Anton N Sidawy 2018-04-03 Through nine outstanding editions, Rutherford's Vascular Surgery and Endovascular Therapy has been the gold standard text in this fast-changing, complex field. Published in association with the Society for Vascular Surgery, this state-of-the-art reference by Drs. Anton N. Sidawy and Bruce A. Perler is a must-have for vascular surgeons, interventionalists, vascular medicine specialists, and trainees, as well as general surgeons, interventional radiologists, and cardiologists that depend upon "Rutherford's" in their practice. It offers authoritative guidance from the most respected and innovative global thought leaders and clinical and basic science experts in the diagnosis and treatment of circulatory disease. Incorporates medical, endovascular, and surgical treatment, as well as diagnostic techniques, decision making, and fundamental vascular biology. Features all vascular imaging techniques, offering a non-invasive evaluation of both the morphology and hemodynamics of the vascular system. Provides unparalleled insight from multidisciplinary leaders worldwide, who share their expertise on the most appropriate contemporary and future treatment of circulatory disease. Employs a full-color layout and images so you can view clinical and physical findings and operative techniques more vividly. Includes 40 new chapters incorporating a shorter, more focused format with a summary for each chapter that provides a quick access to key information - ideal for consultation situations as well as daily practice. Some of these chapters are organized in new sections dedicated to open operative exposure and vessel dissection techniques, diabetic foot, Pediatric Vascular Disease, and practice management issues; areas in the specialty that clinicians frequently face but seldom detailed in other vascular texts nor in earlier Rutherford editions. Covers hot topics such as endovascular therapy of aortic arch and thoracoabdominal aortic aneurysm disease, including the evolving management of aortic dissections.

Index Medicus 2003

Modelling Congenital Heart Disease Gianfranco Butera

Rewire Your Brain John B. Arden, PhD 2010-03-22 How to rewire your brain to improve virtually every aspect of your life-based on the latest research in neuroscience and psychology on neuroplasticity and evidence-based practices Not long ago, it was thought that the brain you were born with was the brain you would die with, and that the brain cells you had at birth were the most you would ever possess. Your brain was thought to be "hardwired" to function in predetermined ways. It turns out that's not true. Your brain is not hardwired, it's "softwired" by experience. This book shows you how you can rewire parts of the brain to feel more positive about your life, remain calm during stressful times, and improve your social relationships. Written by a leader in the field of Brain-Based Therapy, it teaches you how to activate the parts of your brain that have been underactivated and calm down those areas that have been hyperactivated so that you feel positive about your life and remain calm during stressful times. You will also learn to improve your memory, boost your mood, have better relationships, and get a good night sleep. Reveals how cutting-edge developments in neuroscience, and evidence-based practices can be used to improve your everyday life Other titles by Dr. Arden include: Brain-Based Therapy-Adult, Brain-Based Therapy-Child, Improving Your Memory For Dummies and Heal Your Anxiety Workbook Dr. Arden is a leader in integrating the new developments in neuroscience with psychotherapy and Director of Training in Mental Health for Kaiser Permanente for the Northern California Region Explaining exciting new developments in neuroscience and their applications to daily living, Rewire Your Brain will guide you through the process of changing your brain so you can change your life and be free of self-imposed limitations.

Geometry, Study Guide and Intervention Workbook McGraw Hill 2006-08-07 Study Guide and Intervention/Practice Workbook provides vocabulary, key concepts, additional worked out examples and exercises to help students who need additional instruction or who have been absent.

Bioresorbable Scaffolds Yoshinobu Onuma 2017-10-02 This book focuses on the coronary bioresorbable scaffold, a new interventional treatment for coronary artery disease, differentiated from a permanent metallic stent. The book provides an overview of the technology including non-clinical studies and clinical evidences in order to help clinicians understand the appropriate application of the technology and the optimal techniques of implantation. It covers the basics of bioresorbable scaffolds; bench test results; preclinical studies; clinical evidences; and tips and tricks of implantation.

Insights in Heart Valve Disease: 2021 Elena Aikawa 2022-07-29

Acute Rheumatic Fever and Rheumatic Heart Disease, E-Book Dr. Scott Dougherty 2020-02-22 Acute Rheumatic Fever and Rheumatic Heart Disease is a concise, yet comprehensive, clinical resource highlighting must-know information on rheumatic heart disease and acute rheumatic fever from a global perspective. Covering the major issues dominating the field, this practical resource presents sufficient detail for a deep and thorough understanding of the latest treatment options, potential complications, and disease management strategies to improve patient outcomes. Divided into four distinct sections for ease of navigation: Acute Rheumatic Fever, Rheumatic Heart Disease, Population-Based Strategies for Disease Control, and Acute and Emergency Presentations. International editors and chapter authors ensure a truly global perspective. Covers all clinical aspects, including epidemiology, pathophysiology, clinical features, diagnosis, management, and treatment. Includes key topics on population-based measures for disease control for effective primary, secondary, and tertiary prevention. Consolidates today's available information and guidance into a single, convenient resource.

Elementary Geometry Ilka Agricola 2008 Elementary geometry provides the foundation of modern geometry. For the most part, the standard introductions end at the formal Euclidean geometry of high school. Agricola and Friedrich revisit geometry, but from the higher viewpoint of university mathematics. Plane geometry is developed from its basic objects and their properties and then moves to conics and basic solids, including the Platonic solids and a proof of Euler's polytope formula. Particular care is taken to explain symmetry groups, including the description of ornaments and the classification of isometries by their number of fixed points. Complex numbers are introduced to provide an alternative, very elegant approach to plane geometry. The authors then treat spherical and hyperbolic geometries, with special emphasis on their basic geometric properties. This largely self-contained book provides a much deeper understanding of familiar topics, as well as an introduction to new topics that complete the picture of two-dimensional geometries. For undergraduate mathematics students the book will be an excellent introduction to an advanced point of view on geometry. For mathematics teachers it will be a valuable reference and a source book for topics for projects. The book contains over 100 figures and scores of exercises. It is suitable for a one-semester course in geometry for undergraduates, particularly for mathematics majors and future secondary school teachers.

Textbook of Clinical Echocardiography E-Book Catherine M. Otto 2013-04-22 Textbook of Clinical Echocardiography, 5th Edition enables you to use echocardiography to its fullest potential in your initial diagnosis, decision making, and clinical management of patients with a wide range of heart diseases.

World-renowned cardiologist Dr. Catherine M. Otto helps you master what you need to know to obtain the detailed anatomic and physiologic information that can be gained from the full range of echo techniques, from basic to advanced. Get straightforward explanations of ultrasound physics, image acquisition, and major techniques and disease categories - all with a practical, problem-based approach. Make the most of this versatile, low-cost, low-risk procedure with expert guidance from one of the foremost teachers and writers in the field of echocardiography. Know what alternative diagnostic approaches to initiate when echocardiography does not provide a definitive answer. Access the entire text online at www.expertconsult.com, as well as echo video recordings that correspond to the still images throughout the book. Acquire a solid foundation in the essentials of advanced echocardiography techniques such as contrast echo, 3D echo, myocardial mechanics, and intraoperative transesophageal echocardiography. Fully understand the use of echocardiography and its outcomes with key points that identify the must-know elements in every chapter, and state-of-the-art echo images complemented by full-color comparative drawings of heart structures. Familiarize yourself with new ASE recommendations for echocardiographic assessment of the right heart and 3D echocardiography, including updated tables of normal measurements.

Laser Scanning Systems in Highway and Safety Assessment Biswajeet Pradhan 2019-04-02 This book aims to promote the core understanding of a proper modelling of road traffic accidents by deep learning methods using traffic information and road geometry delineated from laser scanning data. The first two chapters of the book introduce the reader to laser scanning technology with creative explanation and graphical illustrations, review and recent methods of extracting geometric road parameters. The next three chapters present different machine learning and statistical techniques applied to extract road geometry information from laser scanning data. Chapters 6 and 7 present methods for modelling roadside features and automatic road geometry identification in vector data. After that, this book goes on reviewing methods used for road traffic accident modelling including accident frequency and injury severity of the traffic accident (Chapter 8). Then, the next chapter explores the details of neural networks and their performance in predicting the traffic accidents along with a comparison with common data mining models. Chapter 10 presents a novel hybrid model combining extreme gradient boosting and deep neural networks for predicting injury severity of road traffic accidents. This chapter is followed by deep learning applications in modelling accident data using feed-forward, convolutional, recurrent neural network models (Chapter 11). The final chapter (Chapter 12) presents a procedure for modelling traffic accident with little data based on the concept of transfer learning. This book aims to help graduate students, professionals, decision makers, and road planners in developing better traffic accident prediction models using advanced neural networks.

Rutherford's Vascular Surgery and Endovascular Therapy, 2-Volume Set, E-Book Anton P Sidawy 2022-06-04 Encyclopedic, definitive, and state-of-the-art in the field of vascular disease and its medical, surgical, and interventional management, Rutherford's Vascular Surgery and Endovascular Therapy offers authoritative guidance from the most respected and innovative global thought leaders and clinical and basic science experts of our time. The thoroughly revised 10th Edition, published in association with the Society for Vascular Surgery and authored by multidisciplinary and international contributors, is an outstanding reference for vascular surgeons, vascular medicine specialists, interventional radiologists and cardiologists, and their trainees who depend upon Rutherford's in their practice. Under the expert editorial guidance of Drs. Anton N. Sidawy and Bruce A. Perler, it is quite simply the most complete and most reliable resource available on the art and science of circulatory diseases. Incorporates fundamental vascular biology, diagnostic techniques, and decision making as well as medical, endovascular, and surgical treatment of vascular disease. Features numerous concise and comprehensive diagnostic and therapeutic algorithms vital to patient evaluation and management. Covers all vascular imaging techniques, offering a non-invasive evaluation of both the morphology and hemodynamics of the vascular system. Employs a full-color layout, images and online videos, so readers can view clinical and physical findings and operative techniques more vividly. Contains fully updated and more concise chapters with a focused format and summary for each that provides a quick access to key information—ideal for consultation as well as daily practice. Includes expanded coverage of the business of vascular surgery, including a new section on the use of technology platforms and social media, and new chapters on telemedicine, the development and operation of outpatient dialysis centers and multispecialty cardiovascular centers, vascular information on the internet, and much more. Provides new content on key topics such as endovascular treatment of complex aortic disease, acute vascular occlusion in the pediatric population, outpatient vascular care, and anatomic surgical exposures for open surgical reconstructions.

Anatomy & Physiology with Brief Atlas of the Human Body and Quick Guide to the Language of Science and Medicine - E-Book Kevin T. Patton 2022-03-21 A&P may be complicated, but learning it doesn't have to be! Anatomy & Physiology, 11th Edition uses a clear, easy-to-read approach to tell the story of the human body's structure and function. Color-coded illustrations, case studies, and Clear View of the Human Body transparencies help you see the "Big Picture" of A&P. To jump-start learning, each unit begins by reviewing what you have already learned and previewing what you are about to learn. Short chapters simplify concepts with bite-size chunks of information. Conversational, storytelling writing style breaks down information into brief chapters and chunks of information, making it easier to understand concepts. 1,400 full-color photographs and drawings bring difficult A&P concepts to life and illustrate the most current scientific knowledge. UNIQUE! Clear View of the Human Body transparencies allow you to peel back the layers of the body, with a 22-page, full-color insert showing the male and female human body along several planes. The Big Picture and Cycle of Life sections in each chapter help you comprehend the interrelation of body systems and how the structure and function of these change in relation to age and development. Interesting sidebars include boxed features such as Language of Science and Language of Medicine, Mechanisms of Disease, Health Matters, Diagnostic Study, FYI, Sport and Fitness, and Career Choices. Learning features include learning outlines, key terms, and study hints at the start of each chapter. Chapter summaries, review questions, and critical thinking questions help you consolidate learning after reading each chapter. Quick Check questions in each chapter reinforce learning by prompting you to review what you have just read. UNIQUE! Comprehensive glossary includes more terms than in similar textbooks, each with an easy pronunciation guide and simplified translation of word parts — essential features for learning to use scientific and medical terminology! NEW! Updated content reflects more accurately the diverse spectrum of humanity. NEW! Updated chapters include Homeostasis, Central Nervous System, Lymphatic System, Endocrine Regulation, Endocrine Glands, and Blood Vessels. NEW! Additional and updated Connect It! articles on the Evolve website, called out in the text, help to illustrate, clarify, and apply concepts. NEW! Seven guided 3-D learning modules are included for Anatomy & Physiology.

Coronary Stenting: A Companion to Topol's Textbook of Interventional Cardiology E-Book Matthew J. Price 2013-05-24 Make optimal use of the latest coronary stenting techniques and adjunctive devices with well-rounded guidance from Coronary Stenting, a companion volume to Dr. Topol's Textbook of Interventional Cardiology. This comprehensive, up-to-date interventional cardiology book keeps you abreast of the latest trial data on efficacy and safety as well as cutting-edge clinical applications in coronary stenting. Achieve optimal outcomes and minimize complications with expert guidance from the foremost teachers and writers in the field of interventional cardiology. Implement the latest knowledge on cutting-edge topics such as drug-eluting stent design; appropriate interpretation of randomized clinical trials and comparative effectiveness studies of coronary stents; the use of fractional flow reserve, intravascular ultrasound and optical coherence tomography to optimize lesion selection and stent implantation; anterograde and retrograde approaches to chronic total occlusions; and percutaneous revascularization of diabetics and patients with left main or multivessel disease. Quickly and easily find the coronary stenting information you need thanks to highly templated chapters and high-quality full-color illustrations that incorporate the latest clinical trial data into recommendations for proper patient and device selection.

Oxford Textbook of Interventional Cardiology Simon Redwood 2010 Cardiac catheterization and coronary angiography remain the key tools in the management of patients with coronary heart disease. Interventional cardiology is now routinely performed outside of major cardiac centres, often in small district hospitals. General training in cardiology rarely offers more than the opportunity to assist a more senior operator to perform angioplasty procedures, so a textbook for the non-specialist has become essential reading. Oxford Textbook of Interventional Cardiology is a definitive text spanning the whole spectrum of interventional cardiology procedures, including management of patients with coronary artery disease, one of the leading killers in western society. Written by an expert faculty of international authors, it offers guidance on all aspects of interventional cardiology according to the European curriculum and guidelines for practice, and covers the very latest techniques and devices to provide practical, evidence-based guidance on treating a full range of coronary lesions. The book also covers structural heart disease and new developments in heart valve disease, which were previously in the realm of cardiac surgeons but are now being treated by cardiologists using less invasive methods.

