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Atlas of Cardiovascular Computed Tomography

Second Edition

 Springer

Atlas Of Cardiovascular Computed Tomography

Kathleen Armour



Atlas Of Cardiovascular Computed Tomography:

Atlas of Cardiovascular Computed Tomography Matthew J. Budoff,Stephan S. Achenbach,Harvey S. Hecht,Jagat Narula,2018-05-23 This atlas is a comprehensive visual reference for the use of cardiovascular computed tomography CT containing photomicrographs anatomic illustrations tables and charts paired with extensive legends and explanations that are supplemented by extensive research peer reviewed articles and textbooks In addition to providing historical perspective and current direction for CT this new edition of Atlas of Cardiovascular Computed Tomography 2e focuses on research involving coronary artery diseases and anomalies congestive heart failure atherosclerotic plaques and asymptomatic disease as well as imaging techniques including preparation acquisition and processing involving the great vessels and carotids the peripheral vasculature and coronary and pulmonary veins The increasing role of CT in the emergency room and in private cardiology practice is also reviewed thoroughly making this an essential read for all involved in cardiac imaging cardiology and emergency medicine

Atlas of Cardiovascular Computed Tomography Matthew J. Budoff,Stephan Achenbach,Jagat Narula,2007 A comprehensive atlas containing photomicrographs anatomic illustrations tables and charts paired with legends and explanations that are supplemented by extensive research peer reviewed articles and textbooks In addition to providing historical perspective and current direction for computed tomography this atlas focuses on research involving coronary artery diseases and anomalies congestive heart failure atherosclerotic plaques and asymptomatic disease as well as imaging techniques including preparation acquisition and processing involving the great vessels and carotids the peripheral vasculature and coronary and pulmonary veins Also a discussion of the role of computed tomography in the emergency room and in private cardiology practice

Atlas of Cardiovascular Computed Tomography Matthew Budoff,Jagat Narula,Stephan S. Achenbach,2007-06-26 The Atlas of Cardiovascular Computed Tomography includes photomicrographs anatomic illustrations tables and charts paired with extensive legends and explanations supplemented by extensive research peer reviewed articles and textbooks In addition to providing historical perspective and current directions for computed tomography the atlas focuses on research involving coronary artery diseases and anomalies congestive heart failure atherosclerotic plaques and asymptomatic disease as well as imaging techniques including preparation acquisition and processing involving the great vessels and carotids the peripheral vasculature and coronary and pulmonary veins Also included is discussion of the role of computed tomography in the emergency room and in private cardiology practice

Atlas of Cardiovascular Computed Tomography Allen J. Taylor,2010-01-01 Atlas of Cardiac CT by Allen J Taylor MD is a practical cardiac imaging reference that provides comprehensive coverage of all aspects of this modality Inside you ll find user friendly case based structured sections that offer a brief clinical introduction multiple CT images highlights of strengths and pitfalls brief commentary and further suggested readings equipping you with everything you need to know to obtain the best imaging results Expert Consult functionality further enhances your reference power with convenient online access to the

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Mechanical Circulatory Support: A Companion to Braunwald's Heart Disease Ebook
James K. Kirklin, Joseph G Rogers, 2019-07-09 Offering comprehensive authoritative coverage of mechanical circulatory support MCS this fully revised companion to Braunwald s Heart Disease provides the clinically relevant information you need to effectively use this therapy to treat and manage end stage heart failure New editors and authors experts in both cardiology and cardiovascular surgery bring you fully up to date with the newest technology and devices as well as basic science clinical applications adverse event monitoring and management socioeconomic implications future directions and more Covers all of the newest techniques including new generation devices Discusses the management of common patient problems highlighting cautions and outcomes as well as pathophysiology and rationale for treatment Brings you up to speed with the latest coverage of ventricular assist devices VAD extracorporeal membrane oxygenation ECMO next generation centrifugal pumps and total artificial hearts Provides a complete clinical perspective of the latest scientific breakthroughs and analysis of the current literature Includes coverage of the most recent guidelines and protocols including MCS for pediatric and congenital heart disease the Interagency Registry of Mechanically Assisted Circulatory Support INTERMACS as a tool to track and advance clinical practice and cellular molecular genomic and functional changes that occur in the failing heart in response to MCS Presents practical evidence from the registry of thousands of cases to guide cardiologists cardiovascular surgeons emergency physicians primary care physicians and other team members on the best management course to follow for each particular patient Enhanced eBook version included with purchase which allows you to access all of the text figures and references from the book on a variety of devices

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Vascular Medicine 3rd Edition is your go to resource for improving your patients cardiovascular health Part of the Braunwald family of renowned cardiology references this updated volume integrates a contemporary understanding of vascular biology with a thorough review of clinical vascular diseases making it an ideal reference for vascular medicine specialists general cardiologists interventional cardiologists vascular surgeons and interventional radiologists Incorporates technologic advances in vascular imaging including ultrasound MRI CTA and catheter based angiography along with more than 230 new figures providing an up to date and complete view of the vascular system and vascular diseases Covers novel antithrombotic therapies for peripheral artery disease and venous thromboembolism advances in endovascular interventions for aortic aneurysms and today's best surgical treatments for vascular diseases Includes seven new chapters Pathobiology of Aortic Aneurysms Pathobiology and Assessment of Cardiovascular Fibrosis Large Vessel Vasculitis Medium and Small Vessel Vasculitis Epidemiology and Prognosis of Venous Thromboembolic Disease Fibromuscular Dysplasia and Dermatologic Manifestations of Vascular Disease Discusses methods for aggressive patient management and disease prevention to ensure minimal risk of further cardiovascular problems Keeps you current with ACC AHA and ECC guidelines and the best ways to implement them in clinical practice Enhanced eBook version included with purchase which allows you to access all of the text figures and references from the book on a variety of devices

Essential Echocardiography: A Companion to Braunwald's Heart Disease E-Book Scott D. Solomon, Linda Gillam, Justina Wu, 2017-11-04 Echocardiography remains the most commonly used imaging technique to visualize the heart and great vessels and this clinically oriented text by Drs Scott D Solomon Justina C Wu and Linda D Gillam helps you make the most of its diagnostic and prognostic potential for your patients Part of the highly regarded Braunwald's family of cardiology references Essential Echocardiography expertly covers basic principles of anatomy and physiology the appearance of normal variants across a wide range of cardiovascular diseases and the hands on approaches necessary to acquire and interpret optimal echocardiographic images in the clinical setting Abundant illustrations provide a superb visual learning experience both in print and online Images convey clear classic examples that represent decades of experience over multiple institutions as well as recent advances in the field More than 485 accompanying video clips mirror the images in the text with easy to follow links from the figure citation to the video online Each section includes one or two clinical cases that illustrate key concepts Written by expert echocardiographers and sonographers who emphasize practical applications throughout the text and superbly illustrated by physician artist Dr Bernard Bulwer Ideal for anyone currently using or learning to use echocardiography including cardiologists cardiology fellows sonographers anesthesiologists critical care physicians emergency physicians radiologists residents and medical students Expert Consult™ eBook version included with purchase This enhanced eBook experience allows you to search all of the text figures and references from the book on a variety of devices

Learning Cardiac CT Justin Sharim, Matthew Budoff, 2025-03-28 This compact educational book provides a succinct review of the use of CT to investigate heart disease for

those taking their Cardiac CT Boards CT is an increasingly used imaging modality in cardiology with increasing numbers of patients undergoing the modality to diagnose coronary artery disease and more practitioners cardiologists radiologists and physicians in training including cardiology and advanced imaging fellows taking the Cardiac CT Board exam Learning Cardiac CT A Board Review provides a structured didactic review book targeting the Cardiac CT board exam As such it will be of vital use to anyone taking their Cardiac CT Boards or looking for a practical and compact review of the use of CT in investigating cardiac disease *Clinical Atlas of Cardiac and Aortic CT and MRI* Patricia M. Carrascosa, Carlos M.

Capuñay, Alejandro Deviggiano, Gaston A. Rodriguez-Granillo, 2019-02-22 This atlas comprehensively describes the application of computed tomography CT and magnetic resonance MR imaging in real world scenarios using 192 illustrative clinical cases These imaging techniques are revolutionizing the diagnostic and therapeutic approach for cardiovascular patients and are progressively becoming viable sub specialties among radiologists and cardiologists Clinical Atlas of Cardiac and Aortic CT and MRI features clinically relevant case based examples of how CT and MR imaging techniques can be applied to identify the pathological features of a range of acquired and congenital heart diseases Using more than 1000 high quality figures of distinctive CT and MR imaging features of most cardiovascular diseases both acquired and congenital it therefore provides a valuable resource for both specialist and non specialist radiology cardiology practitioners seeking to develop a deep understanding of how to recognize the features of a variety of heart diseases using CT and MR imaging techniques

Cardiology Secrets Glenn N. Levine, 2009-07-30 Revised and updated Cardiology Secrets 3rd Edition has the answers Comprehensive yet easy to read Dr Levine presents all the latest advances in the diagnosis and treatment of heart conditions in this popular Secret Series volume A two color page layout portable size and a list of the Top 100 Secrets in cardiology help you better meet the challenges you face today You ll find all the features you rely on from the Secrets Series a question and answer format lists mnemonics tables and an informal tone that make reference fast and easy Plus new imaging modalities and pharmacologic agents keep you on the cusp of the latest advances Expedites reference and review with a question and answer format bulleted lists mnemonics and practical tips from the authors Covers the full range of essential topics including general examination diagnostic procedures arrhythmias symptoms and disease states valvular heart disease cardiovascular pharmacology and other medical conditions with associated cardiac involvement Features Key Points boxes and lists of useful web sites to enhance your reference power Presents a chapter containing Top 100 Secrets providing you with an overview of essential material for last minute study or self assessment Presents a new editor and a new contributor team who bring you fresh perspectives and the latest research in cardiology Discusses the latest imaging modalities and pharmacologic agents to keep you up to date Uses a new contemporary internal design that helps you navigate the text easier **Chronic Coronary Artery Disease: A Companion to Braunwald's Heart Disease E-Book** James de Lemos, Torbjørn Omland, 2017-01-03 Featuring expert guidance from Drs James de Lemos and Torbjørn Omland as well as other globally known leaders in

cardiology Chronic Coronary Artery Disease covers every aspect of managing and treating patients suffering from chronic coronary syndromes This brand new companion to Braunwald s Heart Disease was designed as a stand alone reference for physicians treating patients who present with complex unique challenges offering the latest information on the use of imaging modalities in diagnosis and treatment advances in interventional and surgical approaches to revascularization new medications to improve symptoms and outcomes in chronic CAD and much more Covers every aspect of evaluation and treatment of patients who suffer from chronic coronary syndromes Provides both evidenced based recommendations from the most recent guidelines from the major cardiology societies AHA ACC and ESC as well as practical management tips from leading experts with extensive clinical experience Highlights new developments concerning epidemiology and prevention pathophysiology and clinical findings as well as laboratory testing invasive and non invasive testing risk stratification clinical decision making and prognosis and management of chronic coronary syndromes Features information on today s hot topics including the use of novel imaging modalities in diagnosis and treatment and emerging therapies to improve outcomes in chronic CAD

Atlas of Non-Invasive Coronary Angiography by Multidetector Computed Tomography Guillem Pons-Llado,Ruben Leta-Petracca,2007-03-06 Chapter 1 Basics and Performance of Cardiac Computed Tomography 3 Xavier Alomar Serrallach Ernesto Castillo Gallo Guillem Pons Llad 1 1 Introduction 3 1 2 Historical Perspective of Computed Tomography 3 1 3 Basic Principles of Multidetector Computed Tomography in the Study of the Heart 4 1 3 1 Detectors 5 1 3 2 Image reconstruction 5 1 3 3 Temporal resolution 7 1 3 4 Spatial resolution 7 1 3 5 Control of radiation dose 8 1 4 Performance of a Cardiac MDCT Study 9 1 4 1 Preparation of the patient 9 1 4 2 Image acquisition and contrast administration 9 1 4 3 Image reconstruction 11 Chapter 2 Normal Anatomy and Congenital Abnormalities of the Coronary Arteries 15 Rub n Leta Petracca 2 1 Introduction 15 2 2 Left Coronary Artery 17 2 2 1 Left main LM artery 17 2 2 2 Left anterior descending LAD 18 2 2 3 Left circum ex LCx 22 2 2 4 Intermediate coronary artery 23 2 3 Right Coronary Artery RCA 26 2 4 Pattern of Dominance of the Coronary Arteries 30 2 5 Congenital Anomalies of the Coronary Arteries 33 2 5 1 Anomalies relatable to myocardial ischemia 35 2 5 2 Anomalies not leading to myocardial ischemia 37 Chapter 3 Detection and Quanti cation of Coronary Artery Calcium by MDCT 43 Francesc Carreras 3 1 Introduction 43 3 2 CAC Quanti cation The Agatston Method 44 3 Cardiology Secrets E-Book Glenn N. Levine,2013-05-03 Get quick answers to the most important clinical questions with Cardiology Secrets Using the popular and trusted Secret Series Q A format this easy to read

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Heart Failure E-Book G. Michael Felker, Douglas L. Mann, 2014-12-18 Lead editor of Braunwald's Heart Disease Dr Douglas L Mann and nationally and internationally recognized heart failure expert Dr G Michael Felker bring you the latest definitive state of the art information on heart failure in this outstanding Braunwald's companion volume Heart Failure 3rd Edition keeps you current with recent developments in the field improved patient management strategies and new drug therapies and implantable devices that will make a difference in your patients lives and your practice

Clinical Arrhythmology and Electrophysiology: A Companion to Braunwald's Heart Disease Ziad Issa, MD, MMM, John M. Miller, MD, 2012-07-13 With its unique singular focus on the clinical aspect of cardiac arrhythmias Clinical Arrhythmology and Electrophysiology A Companion to Braunwald's Heart Disease makes it easy to apply today's most up to date guidelines for diagnosis and treatment An expert author team provides clear clinically focused guidance on all types of cardiac arrhythmias including practical techniques for managing complex patients Find the information you need quickly with a consistent organization in all chapters written to a template

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