

Introductory Guide To Cardiac Catheterization

Aims At The Level Between That Of Elementary Probability Texts And Advanced Works On Stochastic Processes. The Pre-Requisites Are A Course On Elementary Probability Theory And Statistics, And A Course On Advanced Calculus. The Theoretical Results Developed Have Been Followed By A Large Number Of Illustrative Examples. These Have Been Supplemented By Numerous Exercises, Answers To Most Of Which Are Also Given. It Will Suit As A Text For Advanced Undergraduate, Postgraduate And Research Level Course In Applied Mathematics, Statistics, Operations Research, Computer Science, Different Branches Of Engineering, Telecommunications, Business And Management, Economics, Life Sciences And So On. A Review Of The Book In American Mathematical Monthly (December 82) Gives This Book Special Positive Emphasis As A Textbook Of The Dozen Or More Texts Published The Last Five Years Aimed At The Students With A Background Of A First Course In Probability And Statistics But Not Yet To Measure Theory. This Is The Clear Choice. An Extremely Well Organized, Lucidly Written Text With Numerous Problems, Examples And Reference T* (With T* Where T* Denotes Textbook And * Denotes Special Positive Emphasis). The Current Enlarged And Revised Edition, While Retaining The Structure And Adhering To The Objective As Well As Philosophy Of The Earlier Edition, Removes The Material And The References And Aims At A Border Perspective With Substantial Additions And Wider Coverage.

Cardiac arrest can strike a seemingly healthy individual of any age, race, ethnicity, or gender at any time in any location, often without warning. Cardiac arrest is the third leading cause of death in the United States, following cancer and heart disease. Four out of five cardiac arrests occur in the home, and more than 90 percent of individuals with cardiac arrest die before reaching the hospital. First and foremost, cardiac arrest treatment is a community issue - local resources and personnel must provide appropriate, high-quality care to save the life of a community member. Time between onset of arrest and provision of care is fundamental, and shortening this time is one of the best ways to reduce the risk of death and disability from cardiac arrest. Specific actions can be implemented now to decrease this time, and recent advances in science could lead to new discoveries in the causes of, and treatments for, cardiac arrest. However, specific barriers must first be addressed. Strategies to Improve Cardiac Arrest Survival examines the complete system of response to cardiac arrest in the United States and identifies opportunities within existing and new treatments, strategies, and research that promise to improve the survival and recovery of patients. The recommendations of Strategies to Improve Cardiac Arrest Survival provide high-priority actions to advance the field as a whole. This report will help citizens, government agencies, and private industry to improve health outcomes from sudden cardiac arrest across the United States.

This quick-access resource delivers a practical orientation for the cath lab. For nurses with a background in cardiac care or intensive care, the cath lab is replete with new challenges and learning opportunities. It is an increasingly complex environment with increasingly challenging procedures. Most effectively run by an interdisciplinary team, all healthcare providers in the cath lab uphold different roles to contribute to patient care and achieve successful procedural outcomes. Fast Facts for the Cath Lab Nurse clearly presents the role of the nurse in the cath lab and how to assist with basic and advanced cath lab procedures. Written in a simple, easy-to-read format with streamlined, bulleted information, this orientation guide breaks down procedures and provides essential information for each step. Chapters cover interpreting pressure waveforms, understanding various calculations, identifying angiographic images, and more competently providing care to patients in the peri-procedural period. Key Features Provides tables, examples of common hemodynamic calculations, images of pressure waveforms and angiogram Begins each chapter with key learning objectives Provides a quick anatomy review Assists with essential information review Assists with Referencing Cardiovascular Invasive Specialist (RCIS) certification

The Third Edition of this highly acclaimed text lives up to the goal of its predecessors--to be the most complete cardiac catheterization text available. Six entirely new chapters cover issues in catheterization laboratory quality management; intracoronary ultrasound; coronary angiography; introduction to coronary artery stenting; results using coronary stents, and anticoagulation and antiplatelet regimens during and following coronary interventions. The other chapters are substantially updated and revised, with new information on revised training and maintenance guidelines; revised quality assurance guidelines; and new interventional techniques, Doppler flow wire data; results of the latest relevant clinical trials; complex lesions; vein grafts, lasers, aspiration thrombectomy; graph arteriopathy, and stented grafts for dissection of the descending aorta. Recommended in the Brandon-Hill list of print books and journals for the small medical library - April 2001

Atlas of Cardiac Catheterization for Congenital Heart Disease

Cardiovascular Catheterization and Intervention

Cardiology and Cardiac Catheterisation

Strategies to Improve Cardiac Arrest Survival

An Introductory Manual

Clinical Cardiac MRI

The purpose of this study was to discover a simple method for the percutaneous insertion of cardiac catheters. A special slotted needle has been designed that has significantly reduced the time and number of manipulations required for percutaneous insertion of cardiac catheters. Other advantages of the needle include minimal amount of blood loss and little or no risk of subsequent thrombosis. (Author)

Containing detailed instructions on all aspects of heart catheterization and angiography, Cardiac Catheterization and Coronary Intervention acts as a concise and invaluable guide for the cardiology trainee.

The staff in every catheterization laboratory in the world participates in some form of hazing. Although largely benign and expected, this ritual can place even more stress on an already unsettled and insecure newcomer. The first edition of this manual was spearheaded by cardiology fellows who remembered well what it was like to enter the cath lab for the first time. Now, several years later, these "hazers" have in many cases become the "hazees" but the additional experience and learning opportunities. Our goal is to produce a thoroughly practical and easily accessible manual for physicians, physicians-in-training, nurses, cath lab x-ray techs, mid-level providers and students. Since we have been subjected to years of questions, first from our mentors and now from our students, we are acutely familiar with the most pertinent and necessary data for any student no matter the level of training. The manual remains specifically designed with an easy-to-read format that includes highlighted "pearls," updated American College of Cardiology/American Heart Association (ACC/AHA) guidelines, numerous visuals including carefully delineated schematics of standard coronary projections, and special "troubleshooting" notes that provide potential solutions for personally encountered problems--Provided by publisher:

Invasive Cardiology: A Manual for Cath Lab Personnel, Third Edition was recently honored with 4 Stars from Doody's Book Review! Completely revised and updated, the Third Edition of Invasive Cardiology: A Manual for Cath Lab Personnel, is written specifically for nurses, technologists, and allied health personnel working in the catheterization laboratory. Topics cover all aspects of the catheterization laboratory including cardiovascular anatomy, radiography, angiography, technical duties of the staff, right and left heart catheterization, PCI, invasive ultrasound, valvuloplasty, hemostasis, pediatric interventions, pharmacology, emergency procedures, and many others.

Interventional Critical Care

The Interventional Cardiac Catheterization Handbook E-Book

Coronary, Peripheral and Structural Heart Disease

Essentials of Cardiac Anesthesia for Noncardiac Surgery E-Book

The Essential Guide

Diagnostic and Therapeutic Cardiac Catheterization

An Introduction to Cardiovascular Physiology is designed primarily for students of medicine and physiology. This introductory text is mostly didactic in teaching style and it attempts to show that knowledge of the circulatory system is derived from experimental observations. This book is organized into 15 chapters. The chapters provide a fuller account of microvascular physiology to reflect the explosion of microvascular research and include a discussion of the fundamental function of the cardiovascular system involving the transfer of nutrients from plasma to the tissue. They also cover major advances in cardiovascular physiology including biochemical events underlying Starling's law of the heart, nonadrenergic, non-cholinergic neurotransmission, the discovery of new vasoactive substances produced by endothelium and the novel concepts on the organization of the central nervous control of the circulation. This book is intended to medicine and physiology students.

Cardiac Catheterization and Imaging is an all-encompassing, richly illustrated guide to cardiac catheterisation and catheter-based intervention, from the foetus to the geriatric patient. The book is divided into 72 chapters across twelve sections, covering everything from the history of cardiac catheterisation, patient preparation, imaging modalities available in preparation and during the procedure, and the equipment required. Beginning with the history and basics of catheterisation, and a section on haemodynamics, subsequent sections cover a range of interventional techniques for heart disease. Further sections bring the text firmly up to date, with recent techniques in valvular aortic disease covered, a chapter on current indications for interventions in adults with congenital heart disease, and the latest equipment available for cardiovascular support. Each chapter concerning a specific condition follows a regular format: a concise discussion on the disorder, indications, procedural details, precautions, and potential pitfalls. With nearly 2100 images and illustrations, spanning 1134 pages, Cardiac Catheterization and Imaging is an invaluable, comprehensive resource for cardiologists. Key Points Comprehensive, illustrated guide to cardiac catheterisation from foetus to geriatric patient Covers history, basics, haemodynamics, various interventions and equipment 2097 images and illustrations

Prepared under the auspices of the International Council of Nurses (ICN), this first volume provides a comprehensive overview of the rapidly emerging field of advanced nursing practice. It addresses central issues in the role and practice development that are fundamental to defining and differentiating the nature of this field. Topics include defining the role, role characteristics, scope of practice, education, regulation and research. Obstacles to and facilitators of that role are addressed and include ethical questions arising in the context of practice development. With an international focus, this volume examines international developments in the field, as reflected in country-specific case studies and examples. It offers a valuable resource for advanced practice nurses, educators and administrators at healthcare institutions. Cardiology is becoming an increasingly complex field understood by only a select group of medical specialists. This publication demystifies many difficult topics in cardiology and cardiac catheterization, commencing with the basics of laboratory instrumentation and technology and progressing to a comprehensive review of new and established interventions. Unlike other publications that are directed mainly towards clinicians, this text is specifically written to assist other medical professionals, such as nurses, technicians and scientific staff. Medical staff will find this a valuable introduction to an area that can be intimidating for a novice. Containing vital information not readily available in standard medical literature, it is an indispensable reference text throughout the hands-on instruction period. Technicians will benefit from detailed explanations of cardiac physiology and waveform analysis, with particular emphasis on ischemia, thrombosis and infarction. Nursing professionals are given specific information on patient management and post-procedural care with valuable information on infection control procedures and the pharmacology of cardiac drugs.

Cardiac Catheterization in Congenital Heart Disease

An Introduction

A Manual for Advanced Practice Providers

Introductory Guide to Cardiac Catheterization

Cardiac Catheterization for Congenital Heart Disease

A Complete Guide

This extensively illustrated volume has been specifically geared towards optimal use of MRI systems. The text provides essential theoretical background information: Imaging acquisition and potential pitfalls are also examined in detail. Most importantly, structured guidelines are provided on the interpretation of clinical data in the wide range of cardiac pathology that can be encountered.

As the diagnostic and therapeutic tools for the management of complex cardiac valve disease continue to evolve, the options for patients who previously had few choices continue to expand. Such advances have resulted in a renaissance in how Heart Teams approach problems and have been able to engage patients in shared decision-making conversations towards a common goal. While opportunities exist in the management of physiologically challenging congenital heart disease, the vast explosion of research and development in the area of aortic valve disease has offered new hope to patients for improving their quality and quantity of life. The goal of this text is to hopefully serve as a foundation for those who want to explore such topics in greater detail.

This handbook covers the diagnosis and practice of interventional cardiac CT imaging and CT angiography. It includes chapters on coronary CT angiography, CT angiography of the peripheral arteries, and cardiac CT from the perspective of the interventionalist, the electrophysiologist, and the cardiac surgeon. The book presents the latest information on the indications for and limitations of CT and covers the use of CT for specific conditions such as peripheral vascular disease and congenital heart disease. A chapter on how to set up a cardiac CT lab is also included. Appendices include details on the major device manufacturers.

Updated for its Second Edition, Introductory Guide to Cardiac Catheterization is an easy-to-follow "how-to" guide to diagnostic and therapeutic cardiac catheterization. This pocket-sized, concise manual presents practical pointers, tips, ACC/AHA guidelines, and highlighted clinical pearls and includes troubleshooting sections that provide solutions to frequently encountered problems. Numerous illustrations demonstrate the complex procedures now being performed via the catheter. This edition has a section on complications in each chapter, a new chapter on peripheral angiography, and a new question-and-answer review chapter. Other highlights include new safety precautions and updates on novel closure devices.

The Cath Lab

Cardiac Diseases

An International Focus

Extracorporeal Membrane Oxygenation

Stochastic Processes

A Guide to Nuclear Medicine Physicians

The first edition of Interventional Critical Care: A Manual for Advanced Care Practitioners was to fill a knowledge gap of the advanced practice provider (APP) specifically regarding the skills and understanding of critical care procedures in response to the rapidly expanding participation of APPs in critical care. Written by experts in the field, this successor edition adds to the content of the first by expanding upon ultrasonography areas to include more direct hemodynamic evaluations as well as the newer "e" FAST. It also explores the speciality of Urology to include more complex interventions. As billing and coding are necessary, the authors added appropriate CPT codes for each of the appropriate chapters. Most chapters have been completely re-written and updated from the first edition and have different authors - thereby a different perspective and experience level. Interventional Critical Care 2nd Edition serves as a valuable reference for physicians and advanced practice providers in daily practice in the ICU, OR and/or ED setting.

Intracardiac Echocardiography is the first echocardiography textbook of its kind to specifically cover ICE. Discussing all aspects of intracardiac ultrasound, it allows readers to perfect ICE image acquisition and helps to guide interpretation of this information during interventional and electrophysiologic procedures. Unique and informative, the text explores: introductory echo physics currently available intracardiac ultrasound systems basic image acquisition the role of ICE in both the interventional and electrophysiology laboratory, as well as in the diagnostic setting. Featuring expert commentary by leaders in the field, the book also includes high quality echocardiographic images illustrating how ICE is used in a wide variety of procedures such as transeptal catheterization, PFO and ASD closure, atrial fibrillation ablation procedures, and many others.

Written by current and former cardiovascular medicine fellows and faculty at the Cleveland Clinic Foundation, this pocket-sized manual is an easy-to-follow "how-to" guide to diagnostic and therapeutic cardiac catheterization. The book presents practical pointers, tips, ACC/AHA guidelines, and highlighted clinical pearls and includes troubleshooting sections that provide solutions to frequently encountered problems. For further clarity, the authors have devised discussions showing angiograms side by side with pictures of corresponding coronary anatomy. The anatomical pictures show three-dimensional reconstructions of coronary arteries with the heart in the background and include the sternum, ribs, and spine where appropriate. Numerous tables are also included.

Packed with useful information, The Interventional Cardiac Catheterization Handbook, 4th Edition, by Drs. Morton J. Kern, Michael J. Lim, and Paul Sorajja, is the perfect hands-on resource for physicians, nurses, and technicians who need to understand and perform these complex procedures. Easy-to-read text, hundreds of clear images, and narrated videos from Dr. Kern ensure that health care workers at all levels have quick access to easily accessible guidelines on procedures and patient care. Features a wealth of quick-reference tables, and more than 500 images - making this handbook a must-have reference for physicians and staff members in every cath lab. Includes a chapter dedicated to interventional pharmacology. Includes new content on correction of mitral regurgitation with Mitra ClipTM, enhanced coverage of aortic valve stenosis with TAVR, expansion of biodegradable and drug-eluting stents, enhanced descriptions of lesion assessment, chronic total occlusion intervention, and radial access approach to intervention. Covers the latest treatment of mitral valve regurgitation and mitral stenosis, new procedural enhancements for the treatment of aortic valve stenosis, and chronic total occlusion intervention technique updates.

Introduction to Advanced Nursing Practice

Cardiovascular Hemodynamics for the Clinician

A Guide to Interpretation of Hemodynamic Data in the Coronary Care Unit

Advances in Therapy

Cardiovascular Hemodynamics

Intracardiac Blood Flow Phenomena

This outstanding resource provides a comprehensive guide to intracardiac blood flow phenomena and cardiac hemodynamics, including the developmental history, theoretical frameworks, computational fluid dynamics, and practical applications for clinical cardiology, cardiac imaging and embryology. It is not a mere compilation of the most up-to-date scientific data an integrated educational means to developing pluridisciplinary background, knowledge, and understanding. Such understanding allows an appreciation of the crucial, albeit heretofore generally unappreciated, importance of intracardiac blood flow phenomena in a host of multifaceted functional and morphogenetic cardiac adaptations. The book includes over 400 figures, for a vital part of the pedagogy. It is organized in three parts. Part I, Fundamentals of Intracardiac Flows and Their Measurement, provides comprehensive background from many disciplines that are necessary for a deep and broad understanding and appreciation of intracardiac blood flow phenomena. Such indispensable background spans several chapters and covers the evolution of ideas and methodological approaches that are relevant to cardiac fluid dynamics and imaging, a qualitative introduction to fluid dynamic stability theory, chapters on physics and fluid dynamics of unsteady blood flows and an intuitive introduction to various kinds of relevant vortical fluid motions. Part II, Visualization of Intracardiac Blood Flows, is devoted to pluridisciplinary approaches to the visualization of intracardiac blood flows. It encompasses chapters on 3-D real-time and "live 3-D" echocardiography and Doppler echocardiography, CT tomographic scanning modalities, including multidetector spiral/helical dataset acquisitions, MRI and cardiac MRA, including phase contrast velocity mapping (PCVM), etc. Understanding of post processing exploration techniques and the display of tomographic data, including "slice-and-dice" 3-D techniques and cine-MRI. Part II also encompasses an intuitive introduction to CFD as it pertains to intracardiac blood flow simulations, followed--in separate chapters--by conceptually rich treatments of the computational fluid dynamics of ejection. Part III, Applications of Intracardiac Blood Flow Phenomena to Cardiac Disease, provides a comprehensive overview of the application of intracardiac blood flow phenomena to the diagnosis and management of various cardiac conditions. Part III contains an Appendix presenting technical aspects of the method of predetermined boundary motion, "PBM," developed at Duke University. Interventional cardiology refers to the catheter-based treatment of cardiovascular diseases and is one of the fastest growing fields in medicine. This updated text addresses recent advances in structural heart interventions, in particular aortic and mitral valve procedures. The advent of newer technologies presents both opportunities and challenges for the cardiologist. cardiologists are now at the forefront of peripheral and structural heart interventions. This new edition focuses on tailoring treatment to individual patients, taking into account specific risk factors and comorbidities, and appropriate use of devices. This second edition also provides useful tools, such as treatment algorithms, evidence tables, charts, tables, and illustrated practical reference tool. The online edition also includes several "how-to" videos.

The second edition of this key resource provides a broad and fundamental overview of basic cardiovascular (CV) hemodynamic principles with a focus on clinical assessment of CV physiology. Extensively updated, the book includes new coverage on noninvasive hemodynamic assessment and the effects of selected interventions on CV hemodynamics. It provides an in-depth, pre-load, after-load, myocardial contractility, and cardiac output. Subsequent chapters examine the effects of interventions such as vasodilators, beta blockers, pressor agents, inotropes, and different forms of invasive circulatory support. The book also focuses on various methods of hemodynamic evaluation including echocardiography, CT/MRI, noninvasive hemodynamic monitoring, and catheter-based techniques. The book concludes with a discussion on proper diagnosis, evaluation, and management of patients using hemodynamic data on a variety of specific disease states. An invaluable contribution to the Contemporary Cardiology Series, the Second Edition of Cardiovascular Hemodynamics: An Introductory Guide is an essential resource for physicians, residents, fellows, medical students, cardiologists, emergency medicine, critical care, and internal medicine.

This is the latest book in a series of cardiovascular-related texts from IntechOpen Publishing. The present volume considers general aspects of cardiac disease and is divided into three distinct sections covering cardiac risk, cardiorenal pathology, and novel interventional surgical techniques. The chapters offer insight into the current state of the art with respect to maintenance of patent vascular access in patients with the cardiorenal syndrome, and a plethora of novel interventional technologies all aimed at salvaging damaged tissue and improving prognosis and reducing mortality. This volume of 18 chapters is intended for general medical and biomedical students at both undergraduate and postgraduate level. It also offers insight into the pathophysiology of cardiac diseases and the new techniques added to the medical armamentarium to improve the outcomes and prevent mortality and would be of interest to those working in academia and healthcare science.

Cardiac Catheterization and Imaging (From Pediatrics to Geriatrics)

Novel Aspects of Cardiac Risk, Cardiorenal Pathology and Cardiac Interventions

An Introduction to Cardiovascular Physiology

Heart's Vortex

Indications and Techniques of Percutaneous Procedures:

The Interventional Cardiac Catheterization Handbook

Since 1970, when the pulmonary artery catheter was introduced into clinical medicine, the technique of hemodynamic monitoring has expanded rapidly. The use of this essential procedure now encompasses the coronary care unit, the medical intensive care unit, the surgical intensive care unit, and the operating room; and an entire spectrum of physicians require this skill, including anesthesiologists, trauma surgeons, pulmonologists, nephrologists, cardiologists, critical care specialists, and cardiologists. Learning the proper performance of invasive techniques is essential for providing high quality patient care. This easy-to-use guide provides every important aspect of hemodynamic monitoring, and presents it in a straightforward and organized format. The book's table of contents is evidence of its exceptional organization and completeness: / Normal Physiology / Respiration / Cardiac Output / Arrhythmias / Acute Mitral Regurgitation and the V Wave / Tricuspid Regurgitation / Acute Left Ventricular Infarction / Right Ventricular Infarction / Acute Left Ventricular Ischemia / Chronic Congestive Heart Failure / Pericardial Tamponade / Pericardial Constriction & Restrictive Cardiomyopathy / Pulmonary Embolism / Trouble / Normal Values / Techniques Used in this Book.

Provides guidance on the anesthetic diagnosis and management of the full range of cardiac lesions, helping minimize adverse outcomes and reduce complications for patients with common, complex, or uncommon cardiac conditions. Includes complete coverage of echocardiography and current monitoring techniques needed for thorough perioperative assessment - all from the anesthesiologist 's perspective. Discusses safe and effective perioperative anesthetic management of patients presenting with advanced levels of cardiac care such as drug-eluting stents, multiple antiplatelet drugs, ventricular assist devices, multiple drugs for end-stage heart failure, and implanted electrical devices that produce cardiac resynchronization therapy, as well as patients with complicated obstetric problems or other significant cardiovascular issues. Features a concise, easy-to-navigate format and Key Points boxes in each chapter that help you find answers quickly. Provides guidance on the anesthetic diagnosis and management of the full range of cardiac lesions, helping minimize adverse outcomes and reduce complications for patients with common, complex, or uncommon cardiac conditions. Includes complete coverage of echocardiography and current monitoring techniques needed for thorough perioperative assessment - all from the anesthesiologist 's perspective. Discusses safe and effective perioperative anesthetic management of patients presenting with advanced levels of cardiac care such as drug-eluting stents, multiple antiplatelet drugs, ventricular assist devices, multiple drugs for end-stage heart failure, and implanted electrical devices that produce cardiac resynchronization therapy, as well as patients with complicated obstetric problems or other significant cardiovascular issues. Features a concise, easy-to-navigate format and Key Points boxes in each chapter that help you find answers quickly.

This atlas depicts and describes catheter-based interventions across the entire pediatric age range, from fetal life through to early adulthood, with the aim of providing an illustrated step-by-step guide that will help the reader to master these techniques and apply them in everyday practice. Clear instruction is offered on a wide range of procedures, including vascular access, fetal interventions, valve dilatation, angioplasty, stent implantation, defect closure, defect creation, valve implantation, hybrid approaches, and other miscellaneous procedures. The atlas complements the previously published handbook, Cardiac Catheterization for Congenital Heart Disease, by presenting a wealth of photographs, images, and drawings selected or designed to facilitate the planning, performance, and evaluation of diagnostic and interventional procedures in the field of congenital heart disease. It will assist in the safe, efficient performance of these procedures, in decision making, and in the recognition and treatment of complications.

A basic understanding of cardiovascular physiology is essential for optimal patient care. This practical book provides a concise tutorial of all the essential aspects of cardiovascular hemodynamics and the techniques used to assess cardiovascular performance. A high-yield reference, this book is replete with figures, tracings, tables, and clinical pearls that reinforce the basic tenets of hemodynamics. From identifying key findings of the patient history and physical exam to correlating hemodynamic tracings with acute clinical presentations, this book arms the reader with the tools necessary to handle any hemodynamic-related situation.

Intracardiac Echocardiography

Cath-Lab Practicals

Integrating Cardiology for Nuclear Medicine Physicians

A Companion to Kaplan's Cardiac Anesthesia

Cardiac Catheterization and Angiocardiography

Invasive Cardiology: A Manual for Cath Lab Personnel

Extracorporeal membrane oxygenation (ECMO), despite a long and troubled history, is very rapidly evolving into a therapy that can be safely and effectively applied across the world in patients experiencing acute cardiac and/or pulmonary failure. As experiences grow, there is a better understanding of nuances of the importance of teamwork, therapy guidelines and protocols, patient selection, and understanding the technical requirements of its interface with human biology. The challenges in managing these very sick and complex patients cannot be overstated. The goal of this text is to provide a framework for the development and successful growth of a program. Authors from Centers of Excellence Worldwide have shared their experiences in the full spectrum in dealing with this evolving field.

Nuclear cardiology is no longer a medical discipline residing solely in nuclear medicine. This is the first book to recognize this fact by integrating in-depth information from both the clinical cardiology and nuclear cardiology literature, and acknowledging cardiovascular medicine as the fundamental knowledge base needed for the practice of nuclear cardiology. The book is designed to increase the practitioner's knowledge of cardiovascular medicine, thereby enhancing the quality of interpretations through improved accuracy and clinical relevance. The text is divided into four sections covering all major topics in cardiology and nuclear cardiology: Basic Sciences and Cardiovascular Diseases Conventional Diagnostic Modalities Nuclear Cardiology Management of Cardiovascular Diseases

The primary goal of this manual is to provide general cardiology fellows entering the cardiac catheterization laboratory a practical pocket guide addressing key aspects of cardiac catheterization. Useful as a quick reference for young specialists who have completed their training in general cardiology and are starting their professional career as academic or private invasive cardiologists.

I. INTRODUCTION TO INTERVENTIONAL CARDIOLOGY -- Spencer B. King, III and Morton J. Kern -- 1 BASIC CORONARY BALLOON ANGIOPLASTY AND STENTING -- Morton Kern -- 2 ARTERIAL ACCESS AND HEMOSTASIS FOR INTERVENTIONAL PROCEDURES -- M. Rinder, M. Kern -- 3 ANGIOGRAPHY FOR INTERVENTIONAL PROCEDURES -- M. Kern, S. Khonkaz, S. Herrmann -- 4 COMPLICATIONS OF PERCUTANEOUS CORONARY INTERVENTIONS -- Glenn Levine, M. Kern -- 5 ANTITHROMBOTIC THERAPY -- Glenn Levine -- 6 NON-BALLOON ANGIOPLASTY DEVICES -- Frank V. Aquire -- 7 STENOSIS, BRACHYTHERAPY AND DRUG-ELUTING STENTS -- Souheil Khoukaz, M. Kern -- 8 DIFFICULT ANGIOPLASTY SITUATIONS -- M. Rinder, M. Kern -- 9 HIGH-RISK ANGIOPLASTY -- Oscar Aguilar, Glenn Levine -- 10 NON-ANGIOGRAPHIC LESION ASSESSMENT: INTRAVASCULAR ULTRASOUND AND CORONARY PHYSIOLOGY -- William Fearon, M. Kern -- 11 PERIPHERAL VASCULAR DISEASE -- Chris White -- 12 MITRAL AND AORTIC BALLOON VALVULOPLASTY -- Ted Feldman -- 13 PERICARDIOCENTESIS -- Ted Feldman -- 14 TRANSLUMINAL ALCIHOL SEPTAL ABLATION FOR HYPERTROPHIC OBSTRUCTIVE CARDIOMYOPATHY -- Cary Kimmelstein -- 15 ATRIAL SEPTAL DEFECT AND PATENT FORAMEN OVALE CLOSURE -- Z. Hijazi -- 16 INTERVENTIONS FOR FAILING HEMODIALYSIS VASCULAR ACCESS -- Steven J. Bander, Suresh Margassery, Keven J. Martin -- 17 CEREBROVASCULAR INTERVENTIONS -- Camillo Gomez.

From Fetal Life to Adulthood

Cardiac Catheterization and Coronary Intervention

A Time to Act

Advances in Complex Valvular Disease

Pediatric and Adult

Fast Facts for the Cath Lab Nurse

The rapidly growing population of adults surviving with congenital heart lesions along with the success of interventional cardiology in the child and adolescent has spawned an incredible interest in adapting the technology for the adult congenital patients. Dr. Mullins, a pioneer in this area, has written an outstanding reference which covers all aspects of performing diagnostic and therapeutic cardiac catheterization procedures on patients of all ages. This illustrated book details the equipment and techniques for performing safe and successful procedures, with a strong emphasis on avoiding complications. It also includes the requirements of a catheterization laboratory for congenital heart patients, as well as guidance for setting up and operating such a laboratory. Cardiac Catheterization in Congenital Heart Disease serves as an essential manual for pediatric and adult interventional cardiologists worldwide.

Percutaneous and coronary interventions, used to treat narrow arteries of the heart caused by/found in those with coronary heart disease. This book is a detailed guide for performing percutaneous procedures and it covers in-depth the procedures that cardiologists and interested specialists must be aware of in order to use the devices proficiently. Cath-Lab Practicals is a concise guide to a range of procedures performed in the catheterisation laboratory. Each technique covered includes step by step instructions on the procedure, indications and contraindications, management, and any likely complications. Enhanced by 50 illustrations and information tables, Cath-Lab Practicals is a useful guide for cardiologists and cardiac radiographers, in training and in practice.

This textbook provides a succinct overview of cardiac surgery, with key concepts being emphasized throughout. An abundance of illustrations, intra-operative photographs, tables as well as information boxes, aids the reader to visualise, grasp and retain difficult concepts. The inclusion of evidence-based approaches to the management of a range of cardiac surgical conditions equips the reader with an understanding of how to overcome a variety of potentially tough clinical challenges. Concise Cardiac Surgery: A Complete Guide comprehensively covers a range of techniques used in cardiac surgery. It is therefore, an ideal resource for the trainee and practising cardiac surgeon seeking a practically focused text detailing how to apply the latest techniques and evidence-based approaches in their day-to-day practice.

A Textbook of Coronary, Peripheral, and Structural Heart Disease, Second Edition

Introductory Guide to Cardiac CT Imaging

An Introductory Guide

A Simple Method for Percutaneous Introduction of Cardiac Catheters

Cardiac Surgery

Pocket Guide to Diagnostic Cardiac Catheterization

This handbook is an ideal, up-to-date guide to the application of catheter-based interventions across the entire patient age range, from fetal life through to adulthood. Clear instruction is offered on techniques of vascular access, valve dilatation, angioplasty, stent implantation, defect closure, defect creation, pulmonary valve implantation and the hybrid approach, as well as miscellaneous other procedures. Topics are approached using a step-by-step format, ensuring that the reader will immediately be able to access information relevant to daily practice. Many explanatory figures and drawings are included in each chapter in order to clarify further how to plan, perform and evaluate diagnostic and interventional procedures in the field of congenital heart disease. Attention is drawn to important tips and tricks that will assist in achieving optimal outcomes and an appendix includes additional general equations and BSA and oxygen consumption charts.

Cardiovascular Hemodynamics for the Clinician, 2nd Edition, provides a useful, succinct and understandable guide to the practical application of hemodynamics in clinical medicine for all trainees and clinicians in the field. Concise handbook to help both practicing and prospective clinicians better understand and interpret the hemodynamic data used to make specific diagnoses and monitor ongoing therapy Numerous pressure tracings throughout the book reinforce the text by demonstrating what will be seen in daily practice Topics include coronary artery disease; cardiomyopathies; valvular heart disease; arrhythmias; hemodynamic support devices and pericardial disease New chapters on TAVR, ventricular assist devices, and pulmonic valve disease, expanded coverage of pulmonary hypertension, fractional flow reserve, heart failure with preserved ejection fraction and valvular heart disease Provides a basic overview of circulatory physiology and cardiac function followed by detailed discussion of pathophysiological changes in various disease states