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NVDJ75 - BRENNAN CORDOVA

The journal of Medical Association of Thailand publishes original and review articles including case report that relate to the study or research on diseases, epidemiology, drug or vaccine that have the influence on clinical course, treatment and prevention of human illness

There's no better preparation for Nurse Practitioners and others in the adult primary care field! Primary Care: Interprofessional Collaborative Practice, 6th Edition provides the concise yet thorough information that you need in today's fast-paced, interprofessional, collaborative environment. With authorship reflecting both academic and clinical expertise, this comprehensive, evidence-based primary care text/refer-

ence shows you how to deliver effective, truly interdisciplinary health care. It covers every major adult disorder seen in the outpatient office setting and features a unique interprofessional collaborative approach with referral/consultation highlights and more. New to this edition is an increased emphasis on rationales for recommendations, pharmacotherapeutics and drug decision-making, and diagnostic direction providing guidance in management, prescribing medications, and ordering diagnostic tests. Comprehensive, evidence-based, accurate, and current content focused on the needs of adult primary care providers. UNIQUE! Interprofessional collaborative approach with referral/consultation highlights. UNIQUE! Initial Diagnostics boxes provide quick reference to key

decision-making content. NEW and UPDATED! Increased emphasis on rationales for treatment recommendations, pharmacotherapeutics and drug decision-making, and diagnostic direction. NEW and UPDATED! Revamped and new introductory chapters: NEW and UNIQUE! Patient/Family Education and Health Literacy chapter. NEW and UNIQUE! New Human Trafficking chapter. NEW chapters covering wellness, risk management, and LGBTQ patient care highlight risks, disparities in healthcare, and information to increase the well-being and care for all patients. Interprofessional Collaborative Practice: Where We Are Today chapter now includes content on the importance of interprofessional collaboration to underscore the significance of this paradigm shift and stress that NPs and

other adult primary care providers must increasingly view themselves as part of a team, especially in management of patients with multiple co-morbidities. Translating Research into Clinical Practice chapter refocused to emphasize DNP scholarly projects and quality improvement projects. UNIQUE! Patient/Family Education and Health Literacy chapter. Genetic Considerations in Primary Care chapter refocused on the graduate-level primary care genetics competencies. Palliative Care chapter refocused on pain management with special sensitivity to the opioid epidemic. NEW! Red Flag features highlight issues not to be missed. NEW! Consistent chapter format and features reflect the systematic approach used in adult primary care practice to promote improved clinical reasoning skills, facilitate learning, and foster quick clinical reference. UPDATED! Content on routine health screenings and immunizations converted to tables for quick reference.

Gain the knowledge and skills you need for clinical anesthesia practice! Written specifically for nurse anesthetists, *Nurse Anesthesia, 7th Edition* provides a solid foundation in scientific principles and evidence-based

practice. Coverage includes a review of pharmacology, pharmacokinetics and pharmacodynamics, drug receptor concepts, intravenous agents, neuromuscular blocking agents, and more, followed by a discussion of anesthesia equipment and clinical monitoring, preoperative preparation of the patient, and the use of anesthesia for a variety of surgical procedures. From a team of expert authors led by Sass Elisha, Jeremy S. Heiner, and John J. Nagelhout, this text helps you prepare for certification and also provides a key reference for CRNAs to use in daily practice. Updated information on pharmacology includes pharmacokinetics, drug delivery systems, opiate antagonists, and key induction drugs. Interactions with other anesthetic agents are integrated where appropriate, along with other important considerations. Overview of basic science provides a thorough basis for understanding nurse anesthesia. Information on Joint Commission (TJC) standards covers monitoring and administering moderate sedation/analgesia, also adding coverage of patient safety, monitoring, and pharmacology. More than 800 full-color photos and illustrations depict anatomy, procedures, concepts, and equipment. Logical organiza-

tion of the text covers basic principles first, and builds on those with individual chapters for each surgical specialty. More than 800 tables and boxes summarize essential information in a quick, easy-to-reference format. UNIQUE! Expert CRNA authors provide the most up-to-date clinical information for CRNAs to use in daily practice. Handy references make it quick and easy to find the latest and most important research in the field. NEW! Updated content reflects the latest changes in the industry. NEW! Two new chapters include Crisis Resource Management and Patient Safety and Infection Control and Prevention.

Thoroughly updated and greatly expanded for its Second Edition, this highly acclaimed atlas is a comprehensive, state-of-the-art reference on all aspects of transesophageal echocardiography (TEE). It features more than 2,300 illustrations-over 1,100 in full color-that demonstrate the full spectrum of findings observed in acquired and congenital cardiac diseases. This edition has two new chapters on transpharyngeal ultrasound and three-dimensional transesophageal echocardiography. All other chapters have been updated with

emphasis on the latest techniques.

Islamic Perspectives on the Principles of Biomedical Ethics presents results from a pioneering seminar in 2013 between Muslim religious scholars, biomedical scientists, and Western bioethicists at the research Center for Islamic Legislation & Ethics, Qatar Faculty of Islamic Studies. By examining principle-based bioethics, the contributors to this volume addressed a number of key issues related to the future of the field. Discussion is based around the role of religion in bioethical reasoning, specifically from an Islamic perspective. Also considered is a presentation of the concept of universal principles for bioethics, with a response looking at the possibility (or not) of involving religion. Finally, there is in-depth analysis of how far specific disciplines within the Islamic tradition — such as the higher objectives of Sharia (maqāṣid al-Sharī'ah) and legal maxims (qawā'id fiqhīyah) — can enrich principle-based bioethics.

The landmark text that belongs in the hands of every cardiologist—fully updated and reorganized to make it more patient-centric than ever World-famous for its au-

thority and clinical relevance, Fuster and Hurst's The Heart is cardiology's longest continuously published reference book. Written to meet the ever-changing needs of cardiologists, fellows, and interns, this trusted classic offers a solid foundation in cardiovascular medicine and complete coverage of all major cardiovascular topics. This fifteenth edition presents a greater focus on the practicalities of patient care. Additionally, the content is ordered in a more methodical pattern, from mechanism to management. Reflecting the latest technical, therapeutic, and clinical advances, Fuster and Hurst's The Heart provides invaluable concise summaries of major new trials and guidelines. Authoritative Coverage and Unmatched Utility: Central Illustrations New section on cardiovascular critical care New chapter "Cardiovascular Disease and COVID-19" Chapter summaries ACC/AHA/ESC guidelines in all chapters 1,200+ photos and illustrations Sections Include: Risk Factors for Cardiovascular Disease Atherosclerosis and Coronary Heart Disease Diseases of the Great Vessels and Peripheral Vessels Valvular Heart Disease Rhythm and Conduction Abnormalities Heart Failure Diseases of the Pericardium

Cardiopulmonary Disease Critical Cardiovascular Care Adult Congenital Heart Disease Special Populations and Topics in Cardiovascular Disease

Issues in National, Regional, and Environmental Health and Medicine: 2011 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about National, Regional, and Environmental Health and Medicine. The editors have built Issues in National, Regional, and Environmental Health and Medicine: 2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about National, Regional, and Environmental Health and Medicine in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in National, Regional, and Environmental Health and Medicine: 2011 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a

source you can cite with authority, confidence, and credibility. More information is available at

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"Like a Maestro who orchestrates multiple virtuosos to perform an exquisite musical symphony, Dr. Kyle and her editorial team have united a remarkable group of national pediatric clinicians, educators, scientists, advocates and thought leaders to share their expertise in this textbook dedicated for nurse practitioner students...Using a wealth of evidence-based, multifaceted tools to cultivate competence and confidence, this textbook offers a refined approach toward successful certification and professional credentialing in pediatric primary care. [It is] an academic tool to promote excellence among our future pediatric providers who will undoubtedly recall this resource as a foundation in their development." -Anne Derouin, DNP, APRN, CPNP, PMHS, FAANP Professor, Assistant Dean, MSN Program Duke University School of Nursing Durham, NC Distinguished by its reader-friendly, streamlined presentation of essential information, this comprehensive text delivers all of the core content covered in the Pediatric Nurse

Practitioner Primary Care curriculum. With a focus on practical application of knowledge and the development of sound diagnostic reasoning, this text emphasizes health supervision and promotion, and disease prevention and management from the standpoint of the nurse practitioner. Information mirrors the Pediatric Nurse Certification Board test blueprint--including an exam chapter map linking content areas to the exam outline--to ensure mastery of all components of evidence-based care. Organized in four units, each chapter within a unit is structured similarly to ease the learning process for the reader. Beginning with a section on the foundations of child health, the content progresses through growth and development during the pediatric lifespan, child health promotion and wellness visits, into the final section on pediatric disease management presented in SOAP format. Current evidence-based guidelines, useful decision-making algorithms, procedures, and resources for families and nurse practitioners are referenced throughout the text. A comprehensive ancillary resource bundle includes an instructor's manual with WHAT-WHY-APPLY case studies, a test bank including certification

exam style questions, PowerPoints, and a color image bank, as well as student resources containing an online prescribing guide for the top 10 pediatric disorders, and patient education downloads. Key Features: Designed in user-friendly, accessible style with brief paragraphs and bulleted lists. Chapters include student learning outcomes, an introduction, a CPNP-PC exam content chapter map, Pro Tips and Alerts, and summarizing key points. Provides distinct sections on health promotion/prevention and disease diagnosis/management. Presents separate coverage of acute and chronic disorders and their necessary referrals. Offers user-friendly algorithms for differential diagnosis. Contains resource links to Bright Futures and Mass General Pediatric symptom checklists, CDC immunization schedules, and other tools. Ancillary resource bundle includes an instructor's manual, test bank, PowerPoints, image bank, online prescribing guide, and patient education downloads.

Aortic aneurysms are very silent, insidious, and sudden complicated pathologies with high incidence of sudden death. The aorta has several different parts, which are

affected by aneurysmal pathology independently and separately or conjointly. Preventive medicine and determinative genetic heritage are the first steps during diagnosis and precaution. Preventive screening of the general population seems the best way for diagnosing early asymptomatic aneurysms with increased health cost. Because sudden death is the first symptom of aortic aneurysms, early interventional treatment is essential to protect fatal complications. In spite of open surgical repair which is the standard procedure, isolated or hybrid endovascular approaches are used widespread in the last decade due to reduction of procedural complications. This book is composed of the main topics on aortic aneurysms and surgical treatments to extend scientific and therapeutic perspective and vision of cardiac teams. With over eighteen (18) years of clinical experience in diagnostic radiography and with over ten (10) years' experience in Radiography education, Dr. Derick Sule identifies radiography students' transition from classroom learning to clinical learning as the greatest problem in radiography education. Thus, this book not only emphasizes the importance of curriculum content and

its delivery but also sees the integration problem as an infrastructural level issue, for which recommendations are proposed to educational developers to consider radiography curriculum restructuring, the formal teacher training of instructors, the establishment of dual role lecturer/clinical radiographers and collaborative partnerships between academic and health institutions involved in radiography education. The main source of energy for the body is glucose. Its low blood concentrations can cause seizures, loss of consciousness and death. Long lasting high glucose levels can cause blindness, renal failure, cardiac and peripheral vascular disease, and neuropathy. Blood glucose concentrations need to be maintained within narrow limits. The process of maintaining blood glucose at a steady state is called glucose homeostasis. This is achieved through a balance of the rate of consumption of dietary carbohydrates, utilization of glucose by peripheral tissues, and the loss of glucose through the kidney tubule. The liver and kidney also play a role in glucose homeostasis. This book aims to provide an overview of blood glucose levels in health and diseases. This book is a comprehensive guide to the

anatomic and functional evaluation of a normal and an abnormal foetal heart. Beginning with an introduction to foetal echocardiography, guidelines for performing a foetal echocardiogram, and indications and timing, the following sections discuss different foetal cardiac defects, including arrhythmias and heart failure. The final chapters provide in depth discussion on genetics and congenital heart disease (CHD), and the management of pregnancy after foetal CHD diagnosis. Each topic concludes with a summary and key points and is further enhanced by clinical images. Key points Comprehensive guide to the evaluation of a normal and abnormal foetal heart Provides guidance from both an anatomic and functional approach Explains how to perform a foetal echocardiogram, its indications and timing In depth discussion on management of foetal congenital heart disease

To meet the care needs of today's diverse patient community, healthcare professionals must learn to care in environments comprising different worldviews, communication styles and expectations. To meet this challenge, it is essential that they op-

erate from a solid foundation of knowledge, based on high standards for cultural competence in nursing practice. Cultural Competence in Caring for Muslim Patients is designed for nurses and allied health-care professionals. It offers a deeper insight into ways in which the Islamic faith is intertwined with patient care, and explores approaches with which to effectively address the varying healthcare requirements of a growing and diverse Muslim community. Following a clear and accessible format, the book discusses key issues including: - The identity and religious beliefs of Muslims - The ethical dimension in caring - Understanding the Muslim family system - Health considerations during fasting and pilgrimage (Hajj) What's more, case studies, activities and discussion questions throughout actively support learning and reflective practices. This insightful guide will prove a valuable asset for any nurse or healthcare professional looking to develop their understanding of how to deliver culturally compassionate and congruent care. This book is a comprehensive and practical updated review about the various aspects of cardiac arrhythmias. It covers a variety of aspects of both atrial and nona-

trial arrhythmias, including genetics, clinical aspects, ECG manifestations, and practical approaches to complex cardiac arrhythmia management - office, hospital, intensive care unit, electrophysiology laboratory, and operating room. This book also presents comprehensive ECG reviews of cardiac arrhythmias like atrial flutter, Brugada pattern, Breijo ECG pattern, and PVCs. Practical aspects of preventing and managing arrhythmias - central venous catheter-induced, atrial flutter, and drug-induced cardiac arrhythmias - are described. Experts have demonstrated the approach for mapping and ablation of complex arrhythmias like atrial flutter, idiopathic ventricular tachycardia, and Brugada syndrome.

Hypertrophic cardiomyopathy is a disease of the cardiac muscle leading to severe debilitating symptoms with relentless progression. Medical options in treating this disease are limited to its early stages, with the disease often becoming resistant to pharmacological interventions. Hypertrophic Cardiomyopathy: A Practical Guide to Diagnosis and Management describes the various sub-types of this condition, including its unique anatomic features, with an

emphasis on a therapeutic approach, encapsulating several techniques. Surgical myectomy has become the gold standard of effective treatment. This book also throws light on patient selection, newer surgical techniques, and novel image-based pre-operative planning modalities for surgical myectomy. Key Features Explores the surgical aspects along with the clinical coverage of hypertrophic cardiomyopathy Provides ready resource for practicing cardiologists, practitioners, trainees, and fellows Covers anatomical variants, mitral valve pathology, and non-invasive pre-surgical planning with a detailed surgical video and intra-operative pictures

Medicine Morning Report Subspecialties: Beyond the Pearls is a case-based reference that covers the key material included on USMLE and shelf exams. Focusing on the practical information you need to know, it teaches how to analyze a clinical vignette in the style of a morning report conference, sharpening your clinical decision-making skills and helping you formulate an evidence-based approach to realistic patient scenarios. This subspecialties volume expands on Dr. Dasgupta's popu-

lar Medicine Morning Report with more comprehensive coverage of internal medicine topics that you will encounter in clerkship and on exams. Each case has been carefully chosen and covers scenarios and questions frequently encountered on board exams, shelf exams, and clinical practice, integrating both basic science and clinical pearls. "Beyond the Pearls" tips and secrets (all evidence-based with references) provide deep coverage of core material. "Morning Report"/"Grand Rounds" format begins with the chief complaints to the labs, relevant images, and includes a "pearl" at the end of the case. Questions are placed throughout the case to mimic practical decision making both in the hospital and on the board exam. Written and edited by experienced teachers and clinicians; each case has been reviewed by board certified attending/practicing physicians.

March 04-06, 2019 Barcelona, Spain Key-topics: Nursing Education & Research,Healthcare,Pediatric Nursing,Midwifery and Women Health Nursing,Cancer Nursing,Cardiac Nursing,Nursing Practice,-Critical Care & Emergency Nursing,Clinical

Nursing,Psychiatric and Mental Health, Geriatric Nursing,Family Medicine,Surgical Nursing,Legal Nursing,Public Health,Dental Nursing,Neuroscience Nursing,Nursing Informatics,Family Nursing

Bridging the gap between medical and surgical specialties in critical care, Textbook of Critical Care, 8th Edition, offers a practical, multidisciplinary approach to the effective management of adult and pediatric patients in the ICU. An outstanding editorial team, led by world-renowned intensivist Dr. Jean-Louis Vincent, assisted by Dr. Frederick A. Moore and new editors Drs. Rinaldo Bellomo and John J. Marini, provides the evidence-based guidance you need to overcome a full range of practice challenges. A full-color art program, relevant basic science and key summary points in every chapter, and expert contributing authors from all over the world make this an indispensable resource for every member of the critical care team. Provides a concise, readable understanding of the pathophysiology of critical illness and new therapeutic approaches to critical care. Addresses both medical and surgical aspects in critical care for adult and pediatric patients in one comprehensive, easy-to-use

reference. Shares the knowledge and expertise of the most recognized and trusted leaders in the field, with more international contributing authors than in previous editions. Covers new information on procedural and diagnostic ultrasound, prone positioning, ECMO, and VADs. Discusses key topics such as organ support, telemedicine, echocardiography, antibiotic stewardship, antiviral agents, coagulation and anti-coagulation, and more. Features a wealth of tables, boxes, algorithms, diagnostic images, and key points that clarify important concepts and streamline complex information for quick reference. Includes companion videos and exclusive chapters online that cover commonly performed procedures. Takes a multidisciplinary approach to critical care, with contributions from experts in anesthesia, surgery, pulmonary medicine, and pediatrics.

Biosignal Processing and Classification Using Computational Learning and Intelligence: Principles, Algorithms and Applications posits an approach for biosignal processing and classification using computational learning and intelligence, highlighting that the term biosignal refers to all

kinds of signals that can be continuously measured and monitored in living beings. The book is composed of five relevant parts. Part One is an introduction to biosignals and Part Two describes the relevant techniques for biosignal processing, feature extraction and feature selection/dimensionality reduction. Part Three presents the fundamentals of computational learning (machine learning). Then, the main techniques of computational intelligence are described in Part Four. The authors focus primarily on the explanation of the most used methods in the last part of this book, which is the most extensive portion of the book. This part consists of a recapitulation of the newest applications and reviews in which these techniques have been successfully applied to the biosignals' domain, including EEG-based Brain-Computer Interfaces (BCI) focused on P300 and Imagined Speech, emotion recognition from voice and video, leukemia recognition, infant cry recognition, EEG-based ADHD identification among others. Provides coverage of the fundamentals of signal processing, including sensing the heart, sensing the brain, sensing human acoustic, and sensing other organs In-

cludes coverage biosignal pre-processing techniques such as filtering, artifact removal, and feature extraction techniques such as Fourier transform, wavelet transform, and MFCC Covers the latest techniques in machine learning and computational intelligence, including Supervised Learning, common classifiers, feature selection, dimensionality reduction, fuzzy logic, neural networks, Deep Learning, bio-inspired algorithms, and Hybrid Systems Written by engineers to help engineers, computer scientists, researchers, and clinicians understand the technology and applications of computational learning to biosignal processing

Topic editor Robert G. Matheny is employed by company CorMatrix Inc.. All other topic editors declare no competing interests with regards to the Research Topic subject.

This two volume textbook is a practical guide to echocardiography for trainees. Divided into seven sections, the book begins with an introduction to the history and basics of echocardiography. The second section explains how to perform different types of echocardiograph. Each of the fol-

lowing sections examines echocardiography and its interpretation for various groups of heart diseases, whilst the final section describes the use of the technique for more general non-invasive procedures, including in systemic diseases, in life threatening conditions and for geriatric patients. Edited by internationally-recognised Dr Navin Nanda from the University of Alabama at Birmingham, US, this comprehensive manual includes more than 1150 echocardiographic images and illustrations. Key points Comprehensive guide to echocardiography Covers basic technique and use for diagnosis of numerous heart diseases Edited by University of Alabama at Birmingham Prof Navin Nanda Includes more than 1150 images and illustrations, and 6 DVD-ROMs with over 1700 video clips

This book is published for doctors, especially juniors, working in all specialties of cardiology (clinical, noninvasive, and invasive). It is an up-to-date, practical, and user-friendly book that contains almost all the information needed by cardiologists in their day-to-day clinical work. It derives its contents from the latest international cardiology guidelines and practices and the most recent literature in the specialization.

I am sure cardiologists of all different experience levels will find it useful.

This issue of Heart Failure Clinics--edited by Dr. Eduardo Bossone--will cover The Right Heart Pulmonary Circulation Unit. Topics include Pathophysiology, Increased Systemic versus Increased Pulmonary Pressures, Pulmonary Arterial Hypertension, Right Heart Pulmonary Circulation Unit in Connective Tissue Disease, Right Heart Pulmonary Circulation Unit in Congenital Heart Diseases, Pulmonary Hypertension and Heart Failure, Right Heart Pulmonary Circulation Unit in Cardiomyopathies and Storage Diseases, Pulmonary Hypertension, Right Heart Pulmonary Circulation Unit at High Altitude, Chronic Thromboembolic Pulmonary Hypertension, Combining Invasive and Non-Invasive Evaluation for the Diagnosis of Pulmonary Hypertension, Imaging the Right Heart Pulmonary Circulation Unit: The Role of Ultrasound, Imaging the Right Heart Pulmonary Circulation Unit: The Role of CT and MRI, Biomarkers in Pulmonary Hypertension, Pulmonary Hypertension Related to Diffuse Parenchymal Lung Disease, Chronic Right Heart Failure, Exercise Training and Rehabilitation in Pulmonary Hypertension, and Right Heart Cir-

culatation Unit and Left Heart Valvular Diseases.

PREDICTING HEART FAILURE Predicting Heart Failure: Invasive, Non-Invasive, Machine Learning and Artificial Intelligence Based Methods focuses on the mechanics and symptoms of heart failure and various approaches, including conventional and modern techniques to diagnose it. This book also provides a comprehensive but concise guide to all modern cardiological practice, emphasizing practical clinical management in many different contexts. Predicting Heart Failure supplies readers with trustworthy insights into all aspects of heart failure, including essential background information on clinical practice guidelines, in-depth, peer-reviewed articles, and broad coverage of this fast-moving field. Readers will also find: Discussion of the main characteristics of cardiovascular biosensors, along with their open issues for development and application Summary of the difficulties of wireless sensor communication and power transfer, and the utility of artificial intelligence in cardiology Coverage of data mining classification techniques, applied machine learning and advanced methods for estimating HF sever-

ity and diagnosing and predicting heart failure Discussion of the risks and issues associated with the remote monitoring system Assessment of the potential applications and future of implantable and wearable devices in heart failure prediction and detection Artificial intelligence in mobile monitoring technologies to provide clinicians with improved treatment options, ultimately easing access to healthcare by all patient populations. Providing the latest research data for the diagnosis and treatment of heart failure, Predicting Heart Failure: Invasive, Non-Invasive, Machine Learning and Artificial Intelligence Based Methods is an excellent resource for nurses, nurse practitioners, physician assistants, medical students, and general practitioners to gain a better understanding of bedside cardiology.

Has the evolution of digital marketing placed businesses at the mercy of software companies? Or is there a path forward for businesses who want to regain their independence and create great marketing again? Digital marketing has been around for over twenty years, yet businesses today are more baffled, bloodied, and

battle-scarred than ever. In *Snake Oil*, marketing scientist Dan Russell offers an entertaining and enlightening joyride back down the hockey stick of digital marketing's growth over the past two decades. Russell takes readers through the deserts of the Western frontier, flying over a budding Silicon Valley and visiting Einstein's study in order to discover the secrets to becoming a marketing scientist. With the knowledge contained in *Snake Oil*, entrepreneurs and business owners will be able to navigate the murky waters of digital marketing, squeeze more profit from their sales funnels, focus on projects that are verifiably important, and build a highly-scalable marketing operating system inside their business.

Mit der Industrie 4.0 wandeln sich die Anforderungen an Ingenieurinnen und Ingenieure: Neue Möglichkeiten durch Entwicklungen in der Künstlichen Intelligenz erfordern neben lebenslangem Lernen auch ein hohes Maß an Kreativität. Die Autoren geben neue Impulse für die Gestaltung einer Industrie-4.0-orientierten Ingenieursausbildung, die Kompetenzen für die Arbeitswelt von morgen vermittelt. Aufbauend auf grundlegenden Informationen

zur Industrie 4.0 werden u. a. Konzepte der Problemlösung, des Wissensmanagements, des lebenslangen Lernens und der Kreativitätsforschung vorgestellt und ihr Nutzen für eine zukunftsorientierte Ingenieursausbildung überprüft. Der Band richtet sich unter anderem an Lehrende und Studierende, aber auch an Forschende sowie Praktiker:innen. With *Industry 4.0*, the demands on engineers are changing: new opportunities arising from developments in artificial intelligence require not only lifelong learning but also a high degree of creativity. The authors provide new impulses for the design of an Industry 4.0-oriented engineering education that promotes the growth of competencies for the working world of tomorrow. Building on basic information on Industry 4.0, concepts from areas such as problem solving, knowledge management, lifelong learning and creativity research are presented and their usefulness for future-oriented engineering education reviewed. The volume is aimed not only at teachers and students, but also at researchers and practitioners. Echocardiography remains the most commonly used imaging technique to visualize the heart and great vessels, and this clini-

cally 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.

This edited volume *Cardiac Surgery Procedures* is a collection of reviewed and relevant research chapters, offering a comprehensive overview of recent developments in the field. The book comprises single chapters authored by various researchers and edited by experts active in the research area. All chapters are complete in themselves but united under a common research study topic. This publication aims at providing a thorough overview of the latest research efforts by international authors and opens new possible research paths for further novel developments.

"Earth observation & navigation. Law and

technology" jest publikacją wydaną przez Wydawnictwo Ius Publicum przy współpracy z Institute of Intellectual Property. Książka została wydana pod redakcją naukową dr Marleny Jankowskiej (Uniwersytet Śląski w Katowicach) oraz Profesora Mirosława Pawełczyka (Uniwersytet Śląski w Katowicach, Prezes Fundacji Ius Publicum), a także Profesora Sławomira Augustyn (Wojkowska Akademia Techniczna) i Doktora Marcina Kulawiaka (Politechnika Gdańska). Książka dotyczy tematyki obserwacji Ziemi i nawigacji. Zagadnienia te zostały omówione zarówno od strony technicznej, jak i prawnej. Redaktorzy oraz autorzy książki wyszli z założenia, że dla zrozumienia tej problematyki konieczną jest zwrócenie naukowej uwagi na obie sfery obserwacji Ziemi i nawigacji.

The world of echocardiography continues to be full of exciting new technological developments with an ultimate goal of better patient care. In this book, titled "Echocardiography in Heart Failure and Cardiac Electrophysiology", authors from various parts of the world contributed to the ad-

vancement of the field. We have included various chapters about the use of echocardiography and modalities of imaging in various common clinical scenarios - ranging from evaluation of commonly ignored right ventricle, imaging in congestive heart failure, to echocardiographic evaluation of critically ill patients. We have also included topics describing the use of echocardiography in cardiac electrophysiology with special interest to cardiac resynchronization therapy and atrial fibrillation ablation. These topics would be of great interest to the clinicians whether they are trainees, physicians, advanced care providers, or anyone involved in the patient care.

Cardiovascular Diseases: Advances in Research and Treatment: 2011 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Cardiovascular Diseases. The editors have built Cardiovascular Diseases: Advances in Research and Treatment: 2011 Edition on the vast information databases of ScholarlyNews.™ You can ex-

pect the information about Cardiovascular Diseases in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Cardiovascular Diseases: Advances in Research and Treatment: 2011 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available

at <http://www.ScholarlyEditions.com/>. This book guides emergency healthcare practitioners in the approach and treatment of emergency cases, both adult and paediatric. It also provides the reader with up-to-date knowledge and experience from leaders in various emergency medicine fields, including trauma, toxicology and resuscitation.