

# Cardiac Electrophysiology From Cell To Bedside

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the volume aim to be a comprehensive overview of the drug and biologic development process that is often called the valley of death pre ind through approval where high costs of studies and high rates of product failure are part of the drug development landscape imaging tools can serve in this period by adding high value data the images and the kinetic information they can provide and cost effective development alternative tools which potentially improve pivotal study designs imaging may identify safety issues early such as unwanted organ or tissue distributions and then can serve advanced development with added certainty of a drug or biologic s success to senior corporate management and investors there are numerous textbooks reference texts and treatises on medical imaging technologies teaching tools on medical cases and physics books on the science of detector and computer interface systems rarely in each of these are examples of medical imaging protocols and animal models of disease i e a text on methodology in drug development is currently unavailable

pharmacogenomics challenges and opportunities in therapeutic implementation second

edition provides comprehensive coverage of the challenges and opportunities facing the therapeutic implications of pharmacogenomics from academic regulatory pharmaceutical socio ethical and economic perspectives while emphasis is on the limitations in moving the science into drug development and direct therapeutic applications this book also focuses on clinical areas with successful applications and important initiatives that have the ability to further advance the discipline new chapters cover important topics such as pharmacogenomic data technologies clinical testing strategies cost effectiveness and pharmacogenomic education and practice guidelines the importance of ethnicity is also discussed which highlights pharmacogenomic diversity across latin american populations with chapters written by interdisciplinary experts and insights into the future direction of the field this book is an indispensable resource for academic and industry scientists graduate students and clinicians engaged in pharmacogenomics research and therapeutic implementation provides viewpoints that focus on the scientific and translational challenges and opportunities associated with advancing the field of pharmacogenomics highlights progress in both the research and clinical areas of pharmacogenomics as well as relevant implementation experience challenges and perspectives on direct to consumer genetic testing includes where applicable discussion points review questions and cases for self assessment purposes and to facilitate in depth discussion

american journal of nursing ajn book of the year awards 1st place in informatics 2023 selected for doody s core titles 2024 in informatics learn how information technology intersects with today s health care health informatics an interprofessional approach 3rd edition follows the tradition of expert informatics educators ramona nelson and nancy staggers with new lead author lynda r hardy to prepare you for success in today s technology filled healthcare practice concise coverage includes information systems and applications such as electronic health records clinical decision support telehealth mhealth epatients and social media tools as well as system implementation new to this edition are topics that include analytical approaches to health informatics increased information on fhir and smart on fhir and the use of health informatics in pandemics chapters written by experts in the field provide the most current and accurate information on continually evolving subjects like evidence based practice ehrs phrs mobile health disaster recovery and simulation objectives key terms and an abstract at the beginning of each chapter provide an overview of what each chapter will cover case studies and discussion questions at the end of each chapter encourage higher level thinking that can be applied to real world experiences conclusion and future directions discussion at the end of each chapter reinforces topics and expands on how the topic will continue to evolve open ended discussion questions at the end of each chapter enhance students understanding of the subject covered mhealth chapter discusses all relevant aspects of mobile health including global growth new opportunities in underserved areas governmental regulations on issues such as data leaking and mining implications of patient generated data legal aspects of provider monitoring of patient generated data and increased responsibility by patients important content including fda and state based regulations project management big data and governance models prepares students for one of nursing s key specialty areas updated chapters reflect the current and evolving practice of health informatics using real life

healthcare examples to show how informatics applies to a wide range of topics and issues new strategies to promote healthcare equality by freeing algorithms and decision making from implicit and explicit bias are integrated where applicable new the latest acn domains are incorporated throughout to support bsn master s and dnp programs new greater emphasis on the digital patient and the partnerships involved including decision making

this book presents cutting edge papers and perspectives on the transport of oxygen to tissues by scientists in a multitude of disciplines such as biochemistry engineering mathematics medicine physics physiology veterinary and complementary medicine the book is composed of the following 8 parts honorary lectures measuring tissue oxygen in vivo membrane level transport hypoxia and metabolic regulation hemodynamic physiology brain functional dynamics cerebral hemodynamics and peripheral oxygen monitoring the articles in this book have been presented at the 51st annual meeting of the international society on oxygen transport to tissue isott 2024 academics clinical and industry researchers engineers as well as graduate students who are interested in oxygen transport to tissue will find this book a great reference and a useful learning resource

animal models in toxicology is a single source reference for the use of animal models in toxicology chapters cover nine species used in toxicology and experimental biology with contributions from experts in toxicology toxicological pathology and species specific metabolism each of these chapters provides an excellent introductory course alon

in recent years scientific research and translation medicine have placed increased emphasis on computational methodology and data curation across many disciplines both to advance underlying science and to instantiate precision medicine protocols in the lab and in clinical practice the nexus of concerns related to oncology cardiology and virology sars cov 2 presents a fortuitous context within which to examine the theory and practice of biomedical data curation innovative data integration and conceptual space modeling for covid cancer and cardiac care argues that a well rounded approach to data modeling should optimally embrace multiple perspectives inasmuch as data modeling is neither a purely formal nor a purely conceptual discipline but rather a hybrid of both on the one hand data models are designed for use by computer software components and are consequently constrained by the mechanistic demands of software environments data modeling strategies must accept the formal rigors imposed by unambiguous data sharing and query evaluation logic in particular data models are not well suited for software level deployment if such models do not translate seamlessly to clear strategies for querying data and ensuring data integrity as information is moved across multiple points on the other hand data modeling is likewise constrained by human conceptual tendencies because the information which is managed by databases and data networks is ultimately intended to be visualized utilized by humans as the end user thus at the intersection of both formal and humanistic methodology data modeling takes on elements of both logico mathematical frameworks e g type systems and graph theory and conceptual philosophical paradigms e g linguistics and cognitive science the authors embrace this two sided aspect of data models by seeking non reductionistic points of convergence between formal and

humanistic conceptual viewpoints and by leveraging biomedical contexts viz covid cancer and cardiac care so as to provide motivating examples and case studies in this volume provides an analysis of how conceptual spaces and related cognitive linguistic approaches can inspire programming and query processing models outlines the vital role that data modeling curation has played in significant medical breakthroughs presents readers with an overview of how information management approaches intersect with precision medicine providing case studies of data modeling in concrete scientific practice explores applications of image analysis and computer vision in the context of precision medicine examines the role of technology in scientific publishing replication studies and dataset curation

was muss ich bei der untersuchung von kindern bedenken dieses buch gibt antworten und liefert nützliche tipps und tricks für die tägliche arbeit in einer radiologie die hauptsächlich erwachsene betreut ist es schwierig plötzlich kinder zu untersuchen dieses buch gibt mtra und radiologietechnologen in ausbildung und praxis alles an die hand was sie zum kindgerechten durchführen von untersuchungen wissen müssen damit ein für alle beteiligten optimales ergebnis entsteht denn es gilt das anrecht auf adäquate bildgebung steigt nicht mit dem körpewicht das moderne standardwerk beschreibt den gesamtprozess von der lagerung der kinder über die bildaquisition verarbeitung und verteilung bis zum strahlenschutz die autoren vermitteln die kinderspezifischen besonderheiten in der radiologie praxisnah und gespickt mit zahlreichen einfühlsamen tipps und tricks aus ihrer langjährigen erfahrung als engagierte radiologietechnologen im spannungsfeld zwischen kind radiologie und technologie speziell ausgerichtet auf die bedürfnisse von mtra und radiologietechnologen der inhalt im Überblick strahlenschutz und relevante dosiswerte pädiatrische besonderheiten in der einstelltechnik phantom zur belichtungsfindung psychosoziale aspekete immobilisierung traumatologie kontrastmittel ct mrt sonografie und durchleuchtung u a mit kindgerechten protokollen anforderungen an medizinische bildschirme

auf dem weg zur viszeralmedizin konservative und operative therapie abdomineller erkrankungen gehören zusammen in diesem buch stellen erfahrene kliniker aus gastroenterologie und viszeralchirurgie zusammen die interdisziplinären diagnostik und therapiekonzepte der viszeralmedizin dar in kompakter stichwortartiger form werden zu allen erkrankungen und funktionsstörungen der bauchorgane gemeinsam abgestimmte präzise und praxisnahe empfehlungen zu diagnostik konservativer und operativer behandlung gegeben differierende vorstellungen zum vorgehen werden thematisiert die jeweiligen leitlinien systematisch einbezogen auch seltene krankheitsformen und konstellationen sind berücksichtigt damit ist dieses buch die ideale grundlage für die enge kooperation in der interdisziplinären zusammenarbeit von gastroenterologen und viszeralchirurgen

alle facetten der geriatrie alterstypische beschwerden richtig einschätzen krankheiten korrekt diagnostizieren und ganzheitlich behandeln das ist der kern dieses buches von anamnese und assessment bis zur behandlung ist es vor allem bei multimorbidität wichtig alle facetten der geriatrie mit fokus auf polypharmazie und alltagsrelevante aspekete zu kennen in der zweiten umfassend überarbeiteten auflage von praktische geriatrie kommt mit dem kapitel

infektiologie und hygiene ein wichtiges thema hinzu in einem gut lesbaren und ansprechend bebilderten format bietet sich praktische geriatrie als kompakter wegbegleiter in ausbildung und praxis an jederzeit zugreifen der inhalt des buches steht ihnen ohne weitere kosten digital in der wissensplattform eref zur verfugung zugangscod im buch mit der kostenlosen eref app haben sie zahlreiche inhalte auch offline immer griffbereit

neurologie compact bietet maximale inhaltliche informationsdichte und bleibt dennoch fokussiert auf die wichtigsten fakten für ihr tagesgeschäft das buch ist ideal als nachschlagewerk für klinik und praxis geeignet so viele grundlagen wie nötig so viel klinisch anwendbares wissen wie möglich aktualisierung der inhalte anhand der dgn leitlinien 2020 und ms leitlinien 2021 alle krankheiten und syndrome alle diagnostischen methoden und therapieformen alle besonderheiten von intensivneurologie über schmerztherapie und neuro orthopädie bis hin zu begutachtungswerten detaillierte hinweise für die praxis genaue dosierungsangaben übersichtliche therapieschemata und clinical pathways für den raschen Überblick jetzt neu kapitel zur neurologischen rehabilitation informationen zu covid 19 handouts für patienten sowie viele nützliche links zu wichtigen quellen plus online zusatzmaterial in der eref bild und videoatlas zu neurologischen krankheitsbildern umfassend aktualisierte clinical pathways skalen und fragebögen zur befunderhebung handouts für patienten links zu aktuellen leitlinien jederzeit zugreifen der inhalt des buches steht ihnen ohne weitere kosten digital in der wissensplattform eref zur verfugung zugangscod im buch mit der kostenlosen eref app haben sie zahlreiche inhalte auch offline immer griffbereit

forensic polymer engineering why polymer products fail in service second edition presents and explains the latest forensic engineering techniques used in the investigation of failed polymer materials that are illustrated with a very large number of detailed case studies which show the different types of failure and the forensic engineering techniques used in their investigation in this updated edition new case studies have been added to include patent disputes and failed products such as spiral wound wall storage tanks lithium battery explosions water bottle failures and breast implant failures such as the pip scandal new images demonstrating failure have been included and images from the previous edition are reproduced in color and enhanced with additional explanatory detail with a dedicated focus on polymeric materials the book includes details on the experimental techniques that are used to characterize the materials particularly in cases of failure finally the book has information on the fabrication of polymer devices as manufacturing flaws often play a role in failure demonstrates the latest forensic engineering techniques used in the investigation of failed polymer components presents detailed case studies that illustrate different types of failure in polymer components fittings and medical devices examines the role of manufacturing in product failure with an overview of faults recognized in methods design and material selection provides an integrated approach to polymer failures that covers everything from basic materials properties through to the experimental techniques required to study them

Überraschende und besondere situationen stellen auch erfahrene dermatologen vor große herausforderungen sie werden in lehrbüchern nicht abgehandelt verlangen aber nach

schnellen lösungen mögliche daraus resultierende fehler können schwerwiegende folgen für patienten und Ärzte haben um das zu vermeiden teilen die autoren in diesem buch ihren reichhaltigen erfahrungsschatz hier finden sie über 40 fallberichte aus der beliebten fehler und irrtümer rubrik der fachzeitschrift aktuelle dermatologie sie basieren auf selbst erlebten anonymisierten fällen praxisnah und anschaulich geschildert aus den relevanten bereichen der dermatologischen praxis ergänzende fehleranalysen und empfehlungen zur fehlervermeidung helfen ihnen dabei die qualität ihrer arbeit zu sichern so schützen sie ihre patienten und sich selbst mit der umfassenden fehlermatrix erhalten sie zudem eine systematische und gut strukturierte Übersicht verschiedener fehlermuster jederzeit zugreifen der inhalt des buches steht ihnen ohne weitere kosten digital in der wissensplattform eref zur verfügung zugangscod im buch mit der kostenlosen eref app haben sie zahlreiche inhalte auch offline immer griffbereit

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