

Magnetic Bearings for Mechanical Cardiac Assist Devices

Steven Day Shanbao Cheng Arnold David Gomez





Magnetic Bearings Mechanical Cardiac Devices

Maria Dorobanţu, Piotr Ponikowski, Frank Ruschitzka

Magnetic Bearings Mechanical Cardiac Devices:

Magnetic Bearings for Mechanical Cardiac Assist Devices Steven Day, Shanbao Cheng, Arnold David Gomez, 2015 Magnetic bearings are mechatronic devices that produce contact free electromagnetic force to support a load such as a moving train or a spinning rotor Compared to traditional bearings magnetic bearings offer several advantages no friction low heat generation no required lubrication quiet operation and fast and stable rotation Because of these reasons magnetic bearings have been used in rotary ventricular assist devices VADs to increase design life reduce or eliminate material wear and bearing maintenance as well as to increase biocompatibility by eliminating high fluid stresses and heat generation both of which are associated with hemolysis platelet activation and aggregation and thrombus growth In this monograph magnetic bearings and their application in VADs are introduced First the operating principles of magnetic bearings are introduced Typical structures of passive bearings which are comprised solely of permanent magnets and active magnetic bearings AMB which make use of electromagnets and position sensors to control the position of the rotor are described We include some description of all the components of a typical AMB system including actuator position sensor controller and amplifier as well as different structures of electromagnet actuators coils design and iron selection A range of position sensors including those typically used in blood pumps as well as self sensing bearings are discussed The basics of the hardware and the software control laws that comprise a typical magnetic bearing system are described A section describes the performance considerations of magnetic bearings and the effect on the overall performance of an assist device that uses magnetic bearings Lastly the magnetic suspension of existing VADs with magnetic bearings are described Berlin Heart INCOR Heartware HVAD WorldHeart Levacor and MiFlow Terumo Duraheart PediaFlow MiTiHeart and LEV VAD Abstract

Magnetic Bearings for Assist Devices Stephen Day, Shanbao Cheng, Arnold David Gomenz, 2015-12-16 This book introduces magnetic bearings mechatronic devices that produce contact free electromagnetic force to support a load such as a moving train or a spinning rotor Compared to traditional bearings magnetic bearings offer several advantages no friction low heat generation no required lubrication quiet operation and fast and stable rotation For these reasons magnetic bearings have been used in rotary ventricular assist devices VADs to increase design life reduce or eliminate material wear and bearing maintenance as well as to increase biocompatibility by eliminating high fluid stresses and heat generation both of which are associated with hemolysis platelet activation and aggregation and thrombus growth The book covers the principles of these bearings how they are used in integrated control and electronics systems and useful information on several major brands of current assist devices Mechanical Circulatory Support: A Companion to Braunwald's Heart Disease Ebook Robert L. Kormos, Leslie W. Miller, 2011-08-30 Mechanical Circulatory Support by Drs Robert L Kormos and Leslie W Miller provides the clinically relevant information you need to effectively use this therapy to treat and manage end stage cardiovascular disease In this Companion to Braunwald's Heart Disease the world's most prominent experts in mechanical

circulatory support MCS cover basic science device construction clinical applications socioeconomic implications future directions and more Stay on top of hot topics including innovative devices like continuous flow pumps next generation centrifugal pumps and total artificial hearts MCS for pediatric and congenital heart disease cellular molecular genomic and functional changes that occur in the failing heart in response to MCS and Interagency Registry of Mechanically Assisted Circulatory Support INTERMACS as a tool to track and advance clinical practice Tap into discussions of hot topics in mechanical circulatory support MCS including current types of devices and clinical settings for MCS MCS for pediatric and congenital heart disease myocardial recovery regenerative therapy bleeding and thrombosis with MCS cellular molecular genomic and functional changes that occur in the failing heart in response to MCS and Interagency Registry of Mechanically Assisted Circulatory Support INTERMACS as a tool to track and advance clinical practice Get a complete picture of the role of mechanical circulatory support in treatment through coverage of device construction clinical applications socioeconomic implications and future directions Master the pathophysiology and rationale of treatment with discussions of basic science in addition to clinically relevant information and current clinical practice guidelines Apply the expertise of the world's most prominent leaders in mechanical circulatory support **Device Therapy in Heart Failure** William H. Maisel, 2010-01-01 Heart failure affects over 5 million patients in the United States alone and is a chronic and debilitating disease While a number of pharmacologic therapies have shown varying degrees of effectiveness many recent advances in the treatment of heart failure has focused on device based therapies In Device Therapy in Heart Failure William H Maisel and a panel of authorities on the use and implementation of device based therapies provide a comprehensive overview of the current and developing technologies that are used to treat heart failure Individual chapters provide an in depth analysis of devices such as CRT's and ICD's while broader topics such as the pathophysiology of heart failure and its current medical therapies are also discussed Additional topics include Pacing and Defibrillation for Atrial Arrhythmias Atrial Fibrillation Ablation and Percutaneous Treatment of Coronary Artery Disease Mechanical Circulatory Support: A Companion to Braunwald's Heart Disease Ebook James K. Kirklin, Joseph G Rogers, 2019-07-09 Offering comprehensive authoritative coverage of mechanical circulatory support MCS this fully revised companion to Braunwald's Heart Disease provides the clinically relevant information you need to effectively use this therapy to treat and manage end stage heart failure New editors and authors experts in both cardiology and cardiovascular surgery bring you fully up to date with the newest technology and devices as well as basic science clinical applications adverse event monitoring and management socioeconomic implications future directions and more Covers all of the newest techniques including new generation devices Discusses the management of common patient problems highlighting cautions and outcomes as well as pathophysiology and rationale for treatment Brings you up to speed with the latest coverage of ventricular assist devices VAD extracorporeal membrane oxygenation ECMO next generation centrifugal pumps and total artificial hearts Provides a complete clinical perspective of the latest scientific

breakthroughs and analysis of the current literature Includes coverage of the most recent guidelines and protocols including MCS for pediatric and congenital heart disease the Interagency Registry of Mechanically Assisted Circulatory Support INTERMACS as a tool to track and advance clinical practice and cellular molecular genomic and functional changes that occur in the failing heart in response to MCS Presents practical evidence from the registry of thousands of cases to guide cardiologists cardiovascular surgeons emergency physicians primary care physicians and other team members on the best management course to follow for each particular patient Enhanced eBook version included with purchase which allows you to Magnetic Bearings Gerhard access all of the text figures and references from the book on a variety of devices Schweitzer, Eric H. Maslen, 2009-06-10 Compiling the expertise of nine pioneers of the field Magnetic Bearings Theory Design and Application to Rotating Machinery offers an encyclopedic study of this rapidly emerging field with a balanced blend of commercial and academic perspectives Every element of the technology is examined in detail beginning at the component level and proceeding through a thorough exposition of the design and performance of these systems. The book is organized in a logical fashion starting with an overview of the technology and a survey of the range of applications A background chapter then explains the central concepts of active magnetic bearings while avoiding a morass of technical details From here the reader continues to a meticulous state of the art exposition of the component technologies and the manner in which they are assembled to form the AMB rotor system These system models and performance objectives are then tied together through extensive discussions of control methods for both rigid and flexible rotors including consideration of the problem of system dynamics identification Supporting this the issues of system reliability and fault management are discussed from several useful and complementary perspectives At the end of the book numerous special concepts and systems including micro scale bearings self bearing motors and self sensing bearings are put forth as promising directions for new research and development Newcomers to the field will find the material highly accessible while veteran practitioners will be impressed by the level of technical detail that emerges from a combination of sophisticated analysis and insights gleaned from many collective years of practical experience An exhaustive self contained text on active magnetic bearing technology this book should be a core reference for anyone seeking to understand or develop systems using magnetic bearings **Mechanical** Circulatory and Respiratory Support Shaun D. Gregory, Andrew F. Stephens, Silver Heinsar, Jutta Arens, John F. Fraser, 2024-11-02 Mechanical Circulatory and Respiratory Support Second Edition continues to provide a comprehensive overview of the past present and future development of mechanical circulatory and respiratory support devices This new edition provides an update on the field while also introducing new elements within the field such as ex vivo perfusion devices for HFpEF design for manufacture oxygenator design and more content on route to market Chapters from over 60 internationally renowned experts focuses on the entire life cycle of mechanical circulatory and respiratory support from the descent into heart and lung failure alternative medical management device options device design implantation techniques

complications and medical management of the supported patient patient device interactions cost effectiveness route to market and a view to the future This second edition is a useful resource for biomedical engineers and clinicians who are designing new mechanical circulatory or respiratory support devices while also providing a comprehensive guide of the entire field for those who are already familiar with some areas and want to learn more Reviews of the most cutting edge research are provided throughout each chapter along with guides on how to design new devices and which areas require specific focus for future research and development Presents an engineering pathway to develop the most advanced medical devices Features a clinical summary of how to select the right patients and treat them optimally while supported with these devices Includes a detailed path to market for those developing new devices in this field **Mechanical Support for Heart** Failure Jamshid H. Karimov, Kiyotaka Fukamachi, Randall C. Starling, 2020-09-04 This book provides a comprehensive overview of mechanical circulatory support of the failing heart in adults and children The book uniquely combines engineering knowledge and the clinician s perspective into a single resource while also providing insights into current and future development of mechanical circulatory support technology such as ventricular assist devices the total artificial heart and catheter based technologies for heart failure Topics featured in this book include The history of mechanical circulatory device development Fundamentals of hemodynamics support Clinical management of mechanical circulatory devices Surgical implantation techniques Current limitations of device therapies in advanced heart failure Advanced and novel devices in the development pipeline Opportunities for advancement in the field Mechanical Support for Heart Failure Current Solutions and New Technologies is a must have resource for not only physicians residents fellows and medical students in cardiology and cardiac surgery but also clinical and basic researchers in biomedical engineering with an interest in mechanical circulatory support heart failure and new technological applications in medicine Magnetic Bearings, Magnetic Drives and Dry Gas Seals Conference ,1995-08-08 Handbook of Cardiac Anatomy, Physiology, and Devices Paul A. Iaizzo, 2024-12-08 This book covers the latest information on the anatomic features underlying physiologic mechanisms and treatments for diseases of the heart Key chapters address preclinical animal models for cardiac research and clinical trials performed cardiac mapping systems heart valve therapies and other device based tools and technologies for cardiac diagnoses and treatments Once again companion of supplementary videos offer unique insights into the device tissue interfaces including those within beating hearts i e these supplemental videos enhance ones understandings of key points within the text The Handbook of Cardiac Anatomy Physiology and Devices the Fourth Edition is a comprehensive and state of the art resource textbook that should provide clinicians and biomedical engineers alike with the authoritative information and background they need to work on and implement tomorrow s generation of life saving cardiac therapies and devices A Practical Approach to Cardiac Anesthesia Frederick A. Hensley, Donald Eugene Martin, Glenn P. Gravlee, 2012-10-08 The text manages to bridge the distance between anesthesia residents fellow in cardiac anesthesia anesthesiology pratitioners perfusionists

and CRNAs Presented in outline format it is a comprehensive overview of cardiac anesthesia. The text progresses from cardiac physiology and pharmacology to anesthetic management of specific cardiac surgical procedures to management of cardiac disorders to circulatory support and organ preservation It ends with a section on thoracic anesthesia and pain management in cardiac and thoracic procedures Includes a new more significant chapter on cardiac physiology and a new chapter on pericardial disease New content added on adult congenital heart disease and new material on percutaneous Cardiac Emergencies in the ICU, An Issue of Critical Care Clinics Shashank Desai, 2014-07-28 This issue of Critical Care Clinics quest edited by Shashank S Desai and Nitin Puri covers Cardiac Emergencies in the Intensive Care Unit Articles include Acute Myocardial Infarction Managing Arrhythmias in the Intensive Care Unit Cardiogenic Shock Hemodynamic Assessment in the Contemporary Intensive Care Unit A Review of Circulatory Monitoring Devices Submassive Pulmonary Embolism Management of Right Heart Failure in the Critically Ill Cardiothoracic Surgical Emergencies in the Intensive Care Unit Perioperative Complications of Cardiac Surgery and Postoperative Care Mechanical Circulatory Devices in Acute Heart Failure and more Braunwald's Heart Disease E-Book Douglas P. Zipes, 2018-01-09 Trusted by generations of cardiologists for the latest most reliable guidance in the field Braunwald's Heart Disease 11th Edition remains your 1 source of information on rapidly changing clinical science clinical and translational research and evidence based medicine This award winning text has been completely updated providing a superior multimedia reference for every aspect of this fast changing field including new material about almost every topic in cardiology A unique update program by Dr Braunwald creates a living textbook by featuring weekly Hot off the Press and periodic Late Breaking Clinical Trials including links to authors presentation slides More than a dozen new chapters cover Chronic Lung Disorders and Cardiovascular Disease Transcatheter Treatment of Congenital Heart Disease Approach to the Patient with Valvular Heart Disease Obesity and Cardiometabolic Disease Environmental Exposures and CVD Approach to the Patient with Cardiac Arrhythmias Cardio oncology Precision Medicine and more New information on clinical cardiovascular genetics MR PET MR device compatibility fibrosis fusion imaging OCT IVUS left atrial appendage exclusion approaches and other topics Many new videos that elucidate coronary peripheral valvular congenital heart diseases and other cardiovascular diseases Expert ConsultTM eBook version included with purchase This enhanced eBook experience allows you to search all of the text figures and references from the book on a variety of devices Kirklin/Barratt-Boyes Cardiac Surgery James K. Kirklin, Eugene H. Blackstone, 2012-10-26 Now in its 4th edition Kirklin Barratt Boyes Cardiac Surgery remains your indispensable source for definitive state of the art answers on every aspect of adult and pediatric cardiac surgery This dynamic medical reference thoroughly and systematically covers the full range of new and classic surgical procedures including the latest alternate and minimally invasive surgical techniques and presents the up to date clinical evidence you need to make effective management decisions Be certain with expert dependable accurate answers for every stage of your career from the most comprehensive

definitive text in the field Get comprehensive coverage of all areas of cardiac surgery including ischemic valvular and congenital heart disease cardiac tumors constrictive pericarditis thoracic aortic surgery cardiac transplantation coronary artery disease aortic valve disease cardiac rhythm disturbances heart failure and transplantation disease of the thoracic aorta tetralogy of Fallot anesthesia and postoperative care Stay current with the latest advancements and practices Comprehensive updates throughout include new information on endovascular management of thoracic aorta disease new data on clinical outcomes the most recent minimally invasive procedures non invasive CT angiography new alternative surgical approaches to mitral valve surgery and many other hot topics Make the most well informed decisions and achieve optimal outcomes by exploring each condition s natural history diagnostic criteria indications for surgery operative techniques and follow up care Reference information guickly thanks to a new streamlined format and easily searchable online access to the complete text downloadable image library reference links and more at expertconsult com Visually grasp and better understand critical information with the aid of a new full color design that includes an abundance of detailed charts and graphs Stay current with the latest advancements and practices Comprehensive updates throughout include new information on endovascular management of thoracic aorta disease new data on clinical outcomes the most recent minimally invasive procedures non invasive CT angiography new alternative surgical approaches to mitral valve surgery and many other hot topics Reference information quickly thanks to a new streamlined format and easily searchable online access to the complete text downloadable image library reference links and more at www expertconsult com **Emerging Technologies** for Heart Diseases Udi Nussinovitch, 2020-08-19 The increasing pace of advances in cardiology throughout the last few decades has fundamentally altered the natural course of heart patients In the last few years available therapies have been revolutionized completely by new transcatheter therapeutic approaches novel ventricular assist devices and new drugs Also molecular biology and genetics have a rapidly growing impact on cardiovascular diseases enabling the field of regenerative medicine to become increasingly closer to routine clinical implementation Emerging Technologies for Heart Diseases was conceived to cover the recent extensive literature on current and novel therapeutic options for cardiac patients The first volume is dedicated to heart failure and valvular disorders and the second covers myocardial ischemia and arrhythmias The clinical topic is addressed in several chapters divided according to the therapeutic approach mechanical or electrical device based or cell and gene based Each of the 46 chapters focuses on clinically available solutions new therapies currently under evaluation in clinical trials promising preclinical technologies and emerging concepts and innovations that have not yet been tested in a preclinical model Also the book discusses future challenges and opportunities for clinical implementation Lessons learned from abandoned experimental practices are also covered giving the readers the widest possible perspective of current therapeutic dilemmas Overall this textbook was designed for physicians who want to stay up to date with current therapies and those of the future for biomedical companies and for those who wish to broaden their knowledge of new

cardiovascular therapeutic options Provides a comprehensive review of the latest therapeutic developments for heart failure valvular disorders myocardial ischemia and arrhythmias and their clinical implications Written by both specialists in the field and established researchers it delivers a review of emerging medical technologies and presents insight into their therapeutic promise Chapters are arranged according to disease pathogeneses and relevance and include coverage of the mechanical electrophysiological and biological approaches for the management of patients with heart failure should be replaced with Kirklin/Barratt-Boyes Cardiac Surgery E-Book James K. Kirklin, Eugene H. heart failure and valvular disorders Blackstone, 2012-10-26 Now in its 4th edition Kirklin Barratt Boyes Cardiac Surgery remains your indispensable source for definitive state of the art answers on every aspect of adult and pediatric cardiac surgery This dynamic medical reference thoroughly and systematically covers the full range of new and classic surgical procedures including the latest alternate and minimally invasive surgical techniques and presents the up to date clinical evidence you need to make effective management decisions Be certain with expert dependable accurate answers for every stage of your career from the most comprehensive definitive text in the field Get comprehensive coverage of all areas of cardiac surgery including ischemic valvular and congenital heart disease cardiac tumors constrictive pericarditis thoracic aortic surgery cardiac transplantation coronary artery disease aortic valve disease cardiac rhythm disturbances heart failure and transplantation disease of the thoracic aorta tetralogy of Fallot anesthesia and postoperative care Stay current with the latest advancements and practices Comprehensive updates throughout include new information on endovascular management of thoracic aorta disease new data on clinical outcomes the most recent minimally invasive procedures non invasive CT angiography new alternative surgical approaches to mitral valve surgery and many other hot topics Make the most well informed decisions and achieve optimal outcomes by exploring each condition s natural history diagnostic criteria indications for surgery operative techniques and follow up care Reference information guickly thanks to a new streamlined format Visually grasp and better understand critical information with the aid of a new full color design that includes an abundance of detailed charts and graphs Stay current with the latest advancements and practices Comprehensive updates throughout include new information on endovascular management of thoracic aorta disease new data on clinical outcomes the most recent minimally invasive procedures non invasive CT angiography new alternative surgical approaches to mitral valve surgery and many other hot topics Reference information quickly thanks to a new streamlined format and easily searchable online access to the complete text downloadable image library reference links and more at www expertconsult com **Artificial Hearts** Shelley McKellar, 2018-01-01 A comprehensive history of the development of artificial hearts in the United States Artificial hearts are seductive devices Their promissory nature as a cure for heart failure aligned neatly with the twentieth century American medical community s view of the body as an entity of replacement parts In Artificial Hearts Shelley McKellar traces the controversial history of this imperfect technology beginning in the 1950s and leading up to the present day McKellar profiles

generations of researchers and devices as she traces the heart s development and clinical use She situates the events of Dr Michael DeBakey and Dr Denton Cooley's professional fall out after the first artificial heart implant case in 1969 as well as the 1982 83 Jarvik 7 heart implant case of Barney Clark within a larger historical trajectory She explores how some individuals like former US Vice President Dick Cheney affected the public profile of this technology by choosing to be implanted with artificial hearts Finally she explains the varied physical experiences both negative and positive of numerous artificial heart recipients McKellar argues that desirability rather than the feasibility or practicality of artificial hearts drove the invention of the device Technical challenges and unsettling clinical experiences produced an ambivalence toward its continued development by many researchers clinicians politicians bioethicists and the public But the potential and promise of the artificial heart offset this ambivalence influencing how success was characterized and by whom Packed with larger than life characters from dedicated and ardent scientists to feuding Texas surgeons and brave patients this book is a fascinating case study that speaks to questions of expectations limitations and uncertainty in a high technology medical world

Current Approach to Heart Failure Maria Dorobanţu, Piotr Ponikowski, Frank Ruschitzka, 2025-10-11 This extensively updated new edition describes the link between heart failure guidelines and clinical practice and represents a complementary tool to help physicians to be well informed regarding this important field The topic of heart failure is continuously changing with considerable developments over the past 5 years The pathophysiology is better understood and there is a trend for a better characterization of special population groups such as oncologic patients New imaging techniques have become valuable tools for the diagnosis of heart failure while pharmacological and novel cell and gene treatments have evolved enormously The challenge for practitioners is making the right selection of treatment strategy that best fits a patient Current Approach to Heart Failure presents detailed information on the indications selection and mechanism of action of these treatments whether they be mechanical circulatory devices or pharmacological treatments The contemporary pharmacological and non pharmacological management of heart failure targets early prevention of disease progression and the avoidance of heart transplant In the era of shortage of donors prevention is the mainstay of the therapeutic strategy which mirrors the main philosophy of this book This textbook therefore represents an essential tool for professionals from all the fields of cardiology non invasive cardiology interventional cardiology electrophysiology and cardiovascular imaging

Braunwald's Heart Disease - E-Book Peter Libby, 2021-10-15 Current comprehensive and evidence based Braunwald's Heart Disease remains the most trusted reference in the field and the leading source of reliable cardiology information for practitioners and trainees worldwide The fully updated 12th Edition continues the tradition of excellence with dependable state of the art coverage of new drugs new guidelines more powerful imaging modalities and recent developments in precision medicine that continue to change and advance the practice of cardiovascular medicine Written and edited by global experts in the field this award winning text is an unparalleled multimedia reference for every aspect of this complex and fast

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