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Hydraulic Gates and Valves Hydraulic Valves and Controls Valve Selection Handbook Design of Hydraulic Systems for Lift Trucks Valve Handbook 3rd Edition Lyons' Valve Designer's Handbook The Aortic Valve Hydraulics of Pipelines Handbook of Valves and Actuators Recent Progress in Mitral Valve Disease Case Studies of Material Corrosion Prevention for Oil and Gas Valves Cardiac Valve Allografts 1962–1987 New Approaches to Aortic Diseases from Valve to Abdominal Bifurcation DUI Dry Suit AC Valve Recalled Heart Valves—Advances in Research and Application: 2013 Edition Spin Valves with Conetic Based Free Layer Aircraft Hydraulic Systems Percutaneous Treatment of Left Side Cardiac Valves Butterfly Valves Cardiac Reconstructions with Allograft Valves Aortic Valve Preservation Subsea Valves and Actuators for the Oil and Gas Industry United States Government Master Specification for Rubber Valves Guide to Prosthetic Cardiac Valves Structural Insufficiency Anomalies in Cardiac Valves Principles of Heart Valve Engineering Atlas of Mitral Valve Repair Biotextiles as medical implants Valves, Piping, and Pipelines Handbook British Special Quality Valves and Electron Tube Devices Data Annual 1964–65 Heart Valves Marine Auxiliary Machinery Southern Engineering Morris's Human Anatomy Diseases of the Intestines Butterfly Valves - Torque, Head Loss, and Cavitation Analysis Advances in Treatments for Aortic Valve and Root Diseases Update in Heart Valve Replacement Handbook of Valves and Actuators Operative Mitral and Tricuspid Valve Surgery

Percutaneous aortic valve replacement and percutaneous mitral valve repair are emerging alternatives for high-risk patients with severe valve disease. Interventional cardiologists are faced with the challenge represented by this complex procedure. This practical guide specifically deals with a comprehensive knowledge of the techniques and approach to percutaneous treatment of left side cardiac valve disease and discusses the potential complications and expected or potential morbidity from the procedure. *New Approaches to Aortic Disease from Valve to Abdominal Bifurcation* provides a complete look at aortic valve diseases from all points of view, including etiology, physiopathology, prevention, diagnosis and treatment. The book offers new insights into the aortic valve and pathology based on evidence of current diagnostic methods, treatments and post-surgery evolution. Content is split into three distinct parts for ease of reference, including an overview of aortic pathology, diagnostic evaluations methods, and treatments. Also included are guidelines and future research directions, making this a must-have volume for all cardiologists and cardiovascular surgeons who address significant issues in this topic area. Present pathophysiological sequences that are shown in correlation with histological details Includes detailed clinical examinations and the value of the initial assessment using chest X-ray, echocardiography, angiography, CT angiography and magnetic resonance, etc. Provides conventional descriptions of surgical techniques that are entirely detailed, along with long-term results and possible complications *Principles of Heart Valve Engineering* is the first comprehensive resource for heart valve engineering that covers a wide range of topics, including biology, epidemiology, imaging and cardiovascular medicine. It focuses on valves, therapies, and how to develop safer and more durable artificial valves. The book is suitable for an interdisciplinary audience, with contributions from bioengineers and cardiologists that includes coverage of valvular and potential future developments. This book provides an opportunity for bioengineers to study all topics relating to heart valve engineering in a single book as written by subject matter experts. Covers the depth and breadth of this interdisciplinary area of research Encompasses a wide range of topics, from basic science, to the translational applications of heart valve engineering Contains contributions from leading experts in the field that are heavily illustrated This chapter discusses the potential of textiles used as heart valve leaflet replacement material. The chapter first reviews the anatomy of the aortic valve, before describing the diseases the valve may undergo and the limits of the noninvasive technologies

available to replace the faulty valve. It then presents textile valve manufacture, and the performance that can be obtained in vitro in both the short and long term. Early animal in vivo results are presented in the last section. Based on the author's extensive practical experience, this new edition will act as a definitive reference work on gates and valves. Hydraulic gates and valves in free surface flow and submerged outlets: 2nd edition will provide you with a comprehensive overview of the subject and clearly describes the principle options available to engineers and designers and outlines the main advantages and disadvantages of all hydraulic gates and valves, highlighting potential problems in their use. This fully revised edition includes: Information about new types of water-operated automatic gates, rolling weir gates, fuse gates and an extended part on barrier gates and their details The sections on seals, the trunnions of radial gates, ice formation, gate operation and structural design have all been expanded New sections on hazard and reliability of gates, earthquake effects on gates and operating machinery, environmental impact and aesthetics, as well as maintenance An appendix on the calculation of hydrostatic loads on radial gates has been set out Hydraulic gates and valves in free surface flow and submerged outlets: 2nd edition will be of great benefit to engineers who work or design project A practical guide to valve selection, covering the fundamentals of valve construction and application and analyzing the different hazards and requirements of various industrial fluid flow situations. This book provides comprehensive, state-of-the art insights into aortic valvuloplasty. Aortic valve repair is a relatively new procedure. Since first being successfully performed in the 1990s was objectively assessed in the 2000s, this procedure has now become standardized, reproducible, and popular around the globe. Written by experts in surgery and cardiology and richly illustrated, it discusses the aspects of anatomy, pathophysiology, diagnosis and surgical procedure that are essential for successful repair. Contributing to the popularization and development of aortic repair, it is a valuable resource for surgeons, cardiologists, cardio-anesthetists and paramedical staff interested in the field and will be good resource for popularizing and developing aortic valve repair. A major need of all cardiologists and surgeons involved with the application of allograft tissue to cardiac surgical reconstructions is met by this unique atlas. Step by step, it carefully describes the procedures involved in acquiring, sterilizing, and cryo-preserving allograft valves as well as the surgical technique used in left and right ventricular outflow tract reconstructions. All of the information needed to perform the reconstructions is given,

including relevant references and applicable variations in method. Excellent illustrations accompany the description of surgical technique. All of the techniques are based on classic approaches, but assimilate the authors' modifications arrived at through vast experience. The wealth of references, illustrations and expertise in this volume make it a valuable asset for all cardiac surgeons. Cardiovascular disease is the major cause of morbidity and mortality worldwide. While the past 40 years have brought major progress in cardiac valve repair and replacement, there remain large patient populations that do not receive such therapies. This, in turn, implies a great need for future basic, applied, and clinical research and, ultimately, therapeutic developments. Heart Valves is a state-of-the-art handbook dedicated to: 1) cardiac valve anatomy, 2) models for testing and research methods; 3) clinical trials; and 4) clinical needs and applications. Piping and valve engineers rely on common industrial standards for selecting and maintaining valves, but these standards are not specific to the subsea oil and gas industry. Subsea Valves and Actuators for the Oil and Gas Industry delivers a needed reference to go beyond the standard to specify how to select, test, and maintain the right subsea oil and gas valve for the project. Each chapter focuses on a specific type of valve with a built-in structured table on valve selection, helping guide the engineer to the most efficient valve. Covering subsea-specific protection, the reference also gives information on high pressure protection systems (HIPPS) and discusses corrosion management within the subsea sector, such as Hydrogen Induced Stress Cracking Corrosion (HISC). Additional benefits include understanding the concept of different safety valves in subsea, selecting different valves and actuators located on subsea structures such as Christmas trees, manifolds, and HIPPS modules, with a full detail review including sensors, logic solver, and solenoid which is designed to save cost and improve the reliability in the subsea system. Rounding out with chapters on factory acceptance testing (FAT) and High Integrity Pressure Protection Systems (HIPPS), Subsea Valves and Actuators for the Oil and Gas Industry gives subsea engineers and managers a much-needed tool to better understand today's subsea technology. Understand practical information about all types of subsea valves and actuators with over 600 visuals and several case studies Learn and review the applicable standards and specifications from API and ISO in one convenient location Protect your assets with a high-pressure protection system (HIPPS) and subsea-specific corrosion management including Hydrogen Induced Stress Cracking Corrosion (HISC) We are entering an especially prolific

era in reporting and publishing clinical experiences with cardiac valve replacement. A voluminous literature on this subject is already in existence, emanating from clinicians, surgeons, bioengineers, and other scientists. Additionally, information presented at heart valve symposia in the form of bound collections reaches the shelves of the medical book stores every year. This activity reflects the dynamic state of cardiac valve technology, highlighted by the introduction each year of new valve designs that often utilize new materials. As a result, the authors recognized the need to update their book *The Pacemaker and Valve Identification Guide*, separating the contents into two volumes dealing with pacemakers* and cardiac valve technology. For this *Guide to Prosthetic Cardiac Valves*, we have gathered a group of recognized authorities in the field, all of whom have contributed in depth analysis in their areas of expertise. New material dealing with the preoperative and postoperative care of the heart valve patient, pathology of cardiac valves, bioengineering problems of cardiac valve technology, and separate chapters on valve implantation in children and ultrasound have been added. Chapter 3, "The Radiology of Prosthetic Heart Valves," we feel will be particularly helpful to the physician in identifying a prosthetic valve and revealing the most likely complications. Chapter 10 is an atlas with descriptions to supply the reader with the essential features of the various prostheses when he or she is faced with a new patient bearing an implanted cardiac valve. *Heart Valves—Advances in Research and Application: 2013 Edition* is a ScholarlyEditions™ book that delivers timely, authoritative, and comprehensive information about Pulmonary Valve. The editors have built *Heart Valves—Advances in Research and Application: 2013 Edition* on the vast information databases of ScholarlyNews.™ You can expect the information about Pulmonary Valve in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of *Heart Valves—Advances in Research and Application: 2013 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/>. Industries which use pumps, seals and pipes will almost certainly also use valves in their systems. Someone in each industry needs to be able to design, purchase or maintain the right valve for the job in hand, and that can amount to a

lot of valves world-wide. Here is a single resource which is aimed at those designers and end users, plus their engineering staff. Brian Nesbitt is a well-known consultant with a considerable publishing record. A lifetime of experience backs up the huge amount of practical detail found in this volume. Its international approach is no accident: it will have world-wide take-up. *Ideal reference for industry *Practical approach compared with competition *Buyers' guide included. Recommended practices, calculations, and data for correctly specifying and using butterfly valves in any water piping system. Second edition. Recent Progress in Mitral Valve Disease presents a comprehensive examination of the proceedings that resulted from the International Symposium that transpired in Paris. It discusses the anatomy and physiology of the mitral valve. It addresses the cyclical motion of the mitral valve leaflets. Some of the topics covered in the book are the cyclical motion of the mitral annulus; analysis of hypertrophic cardiomyopathy; diagnoses of acute myocardial ischemia; characteristics of an abnormally functioning, structurally abnormal mitral valve; atrial function in normal cardiac cycle; and atrial function in acute mitral regurgitation. The factors that modify regurgitant volume are fully covered. An in-depth account of the methods for animal preparation and dynamics of acute experimental mitral regurgitation are provided. The uses and limitations of echocardiography in the examination of the mitral valve are completely presented. A chapter is devoted to the timing of surgical intervention in chronic mitral regurgitation. Another section focuses on the status of prosthetic valves in the mitral position. The book can provide useful information to doctors, cardiologists, students, and researchers. Comprehensive, up-to-date coverage of valves for the process industry Revised to include details on the latest technologies, Valve Handbook, Third Edition, discusses design, performance, selection, operation, and application. This updated resource features a new chapter on the green technology currently employed by the valve industry, as well as an overview of the major environmental global standards that process plants are expected to meet. The book also contains new information on: Valves used in the wastewater industry Applying emergency shutdown (ESO) valves Recent changes to shutoff classifications Valves specified for the nuclear industry The procurement process for the Nuclear Stamp (N-Stamp) The emergence of wireless technology and its application to current smart technology Characteristics of high-performance hydraulic fluid Valve Handbook, Third Edition, covers: Valve selection criteria Manual valves Check valves Pressure relief valves Control valves Manual operators

and actuators Smart valves and positioners Valve and actuator sizing Green valve technology and application Common valve problems Valve purchasing issues A comprehensive introduction to aircraft hydraulic systems and components and their applications, in which description and analysis are supported by worked examples, exercises, and numerical questions, thus allowing readers to gauge their progress in the subject. British Special Quality Valves and Electron Tube Devices Data Annual: 1964-65 presents data on various special quality valves. The selection also presents information in different types of special electron tubes and devices. The text discloses information such as heater, capacitance, characteristics, operating conditions, and range values. As for electron tubes and devices, the selection presents the characteristics, cathodes, typical operation, and maximum ratings. The book will be of great use to electronics designers, engineers, and technicians. Electronics hobbyists and end-users will also benefit from the text. Hardbound. Over recent years, a number of significant developments in the application of valves have taken place: the increasing use of actuator devices, the introduction of more valve designs capable of reliable operation in difficult fluid handling situations; low noise technology and most importantly, the increasing attention being paid to product safety and reliability. Digital technology is making an impact on this market with manufacturers developing intelligent (smart) control valves incorporating control functions and interfaces. New metallic materials and coatings available make it possible to improve application ranges and reliability. New and improved polymers, plastic composite materials and ceramics are all playing their part. Fibre-reinforced plastic pipe systems, glass-reinforced epoxy pipe systems and the traditional low-cost polyester pipe systems have all undergone sophisticated design and manufacturing technology changes. The pote This book provides information on the aortic valve. Written in a comprehensive style, it emphasizes the principles behind the development of artificial valves. It covers the principles of valve geometry, tissue structure and function relationships, valve dynamics, fluid dynamics, mechanical stresses, echocardiographic images, mechanisms of valve sounds, valvular pathology, and design and performance of bioprosthetic valves. It enhances our understanding of angiographic and echocardiographic images and calcific stenosis, and will be of value in the development of better prostheses. The Aortic Valve is the ideal text for biomedical engineers and a unique resource for teaching interdisciplinary approaches to medical and engineering students. This work is also an indispensable source for cardiac surgeons, pathologists, cardiologists, and

manufacturers of prosthetic valves. *Marine Auxiliary Machine: Sixth Edition* explains the correct operation and maintenance of marine auxiliary machinery. The book discusses topics such as the arrangements of the engine and boiler room; pipes and fittings and pumps; compressors and separators; and heat exchangers - its types, control of temperature, and maintenance. The book also talks about other machineries such as diesel engines, steam turbines, propellers, and gears; refrigeration and air conditioning systems; deck machinery; and safety equipment. The text is recommended for engineers in ships who would like to know more about the auxiliary machines onboard ships, how they are operated, and the principles behind them. Industries that use pumps, seals and pipes will also use valves and actuators in their systems. This key reference provides anyone who designs, uses, specifies or maintains valves and valve systems with all of the critical design, specification, performance and operational information they need for the job in hand. Brian Nesbitt is a well-known consultant with a considerable publishing record. A lifetime of experience backs up the huge amount of practical detail in this volume. * Valves and actuators are widely used across industry and this dedicated reference provides all the information plant designers, specifiers or those involved with maintenance require * Practical approach backed up with technical detail and engineering know-how makes this the ideal single volume reference * Compares and contrasts valve and actuator types to ensure the right equipment is chosen for the right application and properly maintained

It was the genius of Gordon Murray in Toronto that introduced the use of allografts into cardiac surgery in the 1950s. Soon after this on opposite sides of the world, Sir Brian Barratt-Boyes in Auckland, New Zealand, and Mr. Donald Ross in London, undertook to use allografts for the replacement of diseased aortic valves. Since that time the global interest in allografts has been patchy, episodic, and without a consensus. Nonetheless, for the last 20 years at least three groups in the world have steadfastly pursued the development of new and relevant information concerning the use of allograft valves in humans. These are the centres of Sir Brian Barratt Boyes, Mr. Donald Ross, and Mark O'Brien in Brisbane. More recently, talented investigators, including Drs. Yankah, Yacoub, and others, have been developing information concerning the immunological aspects of the use of allografts, as well as their clinical use. No doubt, at present, cardiac valve allografts of one sort or another are the devices of choice for conduits and have an important place in the surgery of aortic valve replacement. Even so, in the mind of this writer at least, the future usefulness of allografts

for the replacement of diseased cardiac valves and conduits between a ventricle and the pulmonary artery, remains problematic, and depends upon improvements in other devices for this purpose and upon improvements that may be made in preparing and using allografts. This book describes the different aspects of aortic valve and root diseases including comprehensive discussion of the state-of-the-art diagnostic imaging options, disease risk stratification, selection of candidates for valve repair or percutaneous intervention, and most recent therapeutic options. The growing prevalence of valvular heart disease represents a major challenge in terms of short- and long-term management and surveillance. Aortic valve diseases, including aortic stenosis and regurgitation, are among the most frequent of these, while the number of cases of aortic root disease is also on the rise. Aortic valve disease treatment options include valve surgery, valve repair, minimally invasive valve surgery, and percutaneous approaches and all are covered in this volume. *Advances in Treatments for Aortic Valve and Root Diseases* is a highly illustrated, case oriented reference aimed at cardiology fellows in training, while also helpful to surgeons, cardiologists, imagers, interventionalists, as well as other clinicians and students involved in the diagnosis and treatment of aortic valve and root diseases. This comprehensive text/reference addresses all hydraulic aspects of pipeline design. Incorporates many real-life examples from the author's experience in the design and operation of pipelines. Topics covered include basic equations necessary to pipeline design, how to conduct a feasibility study and perform economic analysis, design considerations for pumps and valves, how to suppress cavitation, hydraulic transients, trapped air, and methods of numerical solution of governing equations (including applications to complex piping systems). Includes twenty-five tables for easy reference. Extensively illustrated. This full-color atlas with accompanying video DVD provides a complete and practical "how-to" guide to planning and performing mitral valve repair surgery for mitral regurgitation. The book reviews the natural history of mitral regurgitation, the functional anatomy of the mitral valve, and the use of echocardiography in preoperative evaluation and surgical planning. Chapters describe and illustrate all techniques currently used for mitral valve repair and discuss results. A bound-in DVD presents narrated video clips of six cases that show the application of specific techniques. Each case begins with preoperative echocardiograms demonstrating the mitral valve defect and proceeds through key surgical maneuvers. *Case Studies of Material Corrosion Prevention for Oil and Gas Valves* delivers a critical reference for engineers and corrosion

researchers. Packed with nearly 30 real-world case studies, this reference gives engineers standardized knowledge on how to maintain, select and prevent typical corrosion problems in a variety of oil and gas settings. Subsea, offshore, refineries and processing plants are all included, covering a variety of challenges such as chloride stress cracking, how to use Teflon powder to prevent cross contamination, and carbon dioxide corrosion. Organized for quick discovery, this book gives engineers a much-needed tool to safely protect their assets and the environment. Engineers working in oil and gas operations understand that corrosion is a costly expense that increases emissions and damages the environment, but many standards do not provide practical examples with solutions, leaving engineers to learn through experience. This resource provides comprehensive information on topics of interest. Provides solutions to common oil and gas corrosion valve failures with standard case studies Helps readers improve safety and reliability with the addition of references for further training Presents tactics on how to reduce environmental impact and use methods to prevent corrosion across offshore, subsea and refinery activities This book reviews the surgical management of the mitral and tricuspid valves. It provides a detailed examination of the recent exponential improvements in the understanding of the pathophysiology of the disease processes affecting these valves, which has resulted in significant changes in the strategies that can be applied. Chapters include analysis of the basic sciences related to the anatomy and physiology of the mitral and tricuspid valves, pre-operative imaging of these valves, illustrating the variety of pathologies encountered, and critically a comprehensive step-by-step approach to the peri-operative management and surgical techniques pertaining to each pathological process. Operative Mitral and Tricuspid Valve Surgery systematically covers all major topics involved in the current practice of an adult cardiac surgeon who performs operations on the mitral and tricuspid valves. It is therefore suitable for the cardiac intensive care unit specialist interested in improving their knowledge of cardiac patient management. It is an essential resource for all adult cardiac surgeons and cardiac intervention specialists at any stage of their career.

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