



SECOND EDITION

Steam Turbines

DESIGN, APPLICATIONS AND RE-RATING



Heinz P. Bloch / Murari P. Singh

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**Chirla Chandra Sekhara Reddy, Gade
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and industrial applications of Waste Heat Recovery WHR in process industries Simple and effective WHR techniques are illustrated with industrial examples to help readers to identify calculate and develop heat recovery potential in their processes Key benefits of WHR projects which are useful for developing successful WHR business cases are demonstrated Special emphasis is given towards major technical risks and mitigation plans for implementing sound WHR projects Techniques for reaping benefits of WHR projects for longer periods are also outlined Applying these techniques with an understanding of the principles explained in this book and taking cues from the examples and suggestions the reader will be able to realise sustained benefits in their process Solution manual is provided for free to instructors who adopt this textbook Please send your request to sales wspc com

Advances in Natural Gas: Formation, Processing, and Applications. Volume 7: Natural Gas Products and Uses Mohammad Reza Rahimpour, Mohammad Amin Makarem, Maryam Meshksar, 2024-04-17

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Heavy Duty Rotating Equipment Axel Sperber, 2024-07-16 The selection and procurement of compressors and steam turbines for use in the chemical and process industry is highly interdisciplinary The success of a project is determined by a number of areas of knowledge from mechanical electrical materials and control engineering knowledge to thermodynamics fluid mechanics and strength theory through to project management and quality control In this guide the individual steps are presented along the chronological chain together with the basic decisions and pitfalls that need to be taken into account The work is limited to custom built machines that are specially optimized for a specific process and to gases and vapours as conveying media It is presented from the operator s point of view with a focus on high system availability safety and favorable conditions for maintenance and servicing

Advances in Mechanical Engineering Alexander N. Evgrafov, 2018-03-02 This book draws together the most interesting recent results to emerge in mechanical engineering in Russia providing a fascinating overview of the state of the art in the field in that country which will be of interest to a wide readership A broad range of topics and issues in modern engineering are discussed including dynamics of machines materials

engineering structural strength and tribological behavior transport technologies machinery quality and innovations The book comprises selected papers presented at the 6th conference Modern Engineering Science and Education held at the Saint Petersburg State Polytechnic University in June 2017 with the support of the Russian Engineering Union The authors are experts in various fields of engineering and all of the papers have been carefully reviewed The book will be of interest to mechanical engineers lecturers in engineering disciplines and engineering graduates Vibration Engineering and Technology of Machinery Jyoti K. Sinha,2014-08-14 The VETOMAC X Conference covered a holistic plethora of relevant topics in vibration and engineering technology including condition monitoring machinery and structural dynamics rotor dynamics experimental techniques finite element model updating industrial case studies vibration control and energy harvesting and signal processing These proceedings contain not only all of the nearly one hundred peer reviewed presentations from authors representing more than twenty countries but also include six invited lectures from renowned experts Professor K Gupta Mr W Hahn Professor A W Lees Professor John Mottershead Professor J S Rao and Dr P Russhard This work is of interest to researchers and practitioners alike and is an essential book for most of libraries of higher academic institutes Thermal Sciences for Machines Giorgio Cornetti,2024-12-18 This second volume of the textbook Hydraulic and Thermal Machines focuses on thermal machines It covers the fundamentals of heat transfer and thermodynamics for reacting and non reacting mixtures and compressible fluids followed by the principles of design control and operation of thermal machines With an uncomplicated yet rigorous approach and using numerous examples the book gradually guides readers through different kind of fluid machines systems such as compressors turbines vapor and gas turbine power plants internal combustion engines and hybrid systems discussing important issues for their application in propulsion Furthermore the book covers reversed cycle systems with a special attention to air conditioning *Marks' Standard Handbook for Mechanical Engineers, 12th Edition* Ali M. Sadegh,William M. Worek,2017-11-10 The 100th Anniversary Edition of the Bible for Mechanical Engineers Fully Revised to Focus on the Core Subjects Critical to the Discipline This 100th Anniversary Edition has been extensively updated to deliver current authoritative coverage of the topics most critical to today s Mechanical Engineer Featuring contributions from more than 160 global experts Marks Standard Handbook for Mechanical Engineers Twelfth Edition offers instant access to a wealth of practical information on every essential aspect of mechanical engineering It provides clear concise answers to thousands of mechanical engineering questions You get accurate data and calculations along with clear explanations of current principles important codes standards and practices All new sections cover micro and nano engineering robotic vision alternative energy production biological materials biomechanics composite materials engineering ethics and much more Coverage includes Mechanics of solids and fluids Heat Strength of materials Materials of engineering Fuels and furnaces Machine elements Power generation Transportation Fans pumps and compressors Instruments and controls Refrigeration cryogenics and optics Applied mechanics Engineering ethics *Energy Audit* Y. P.

Abbi,2012-01-01 The availability of fossil fuels required for power plants is reducing and their costs increasing rapidly This gives rise to increase in the cost of generation of electricity But electricity regulators have to control the price of electricity so that consumers are not stressed with high costs In addition environmental considerations are forcing power plants to reduce CO2 emissions Under these circumstances power plants are constantly under pressure to improve the efficiency of operating plants and to reduce fuel consumption In order to progress in this direction it is important that power plants regularly audit their energy use in terms of the operating plant heat rate and auxiliary power consumption Energy Audit of Thermal Power Combined Cycle and Cogeneration Plants attempts to refresh the fundamentals of the science and engineering of thermal power plants and establishes its link with the real power plant performance data through case studies and further developing techno economics of the energy efficiency improvement measures This book will rekindle interest in energy audits and analysis of the data for designing and implementation of energy conservation measures on a continuous basis Transactions of ASME ,1924 A.S.M.E.transactions American Society of Mechanical Engineers,1924

Expanders for Oil and Gas Operations Murari Singh,Michael J. Drosjack,David H. Linden,2014-05-29 Effective methods for recovering gas energy using expanders Expanders for Oil and Gas Operations offers in depth details on different types of expanders addressing the background mechanical design features design and operating requirements operational processes and potential problems for each class of expander The book also discusses rotor dynamics vibration theory material strength life estimation and probabilistic analysis The information in this practical illustrated resource will help you to maintain and improve existing expanders and implement design enhancements for increased expander capacity as well as lifespan and maximum energy reuse Comprehensive coverage includes CCU hot gas expanders Nitric acid expanders for chemical applications Turboexpanders cryogenic turboexpanders Rotor dynamics Bladed disk vibration and reliability Damage in material and life analysis Probabilistic concept and risk assessment *N.E.L.A. Publications* National Electric Light Association,1924 **Proceedings** National Electric Light Association,1925 Publications of the National Electric Light Association ,1925 **Proceedings of National Electric Light Association** National Electric Light Association. Convention,1925 **Transactions of the American Society of Mechanical Engineers** American Society of Mechanical Engineers,1924 Vols 2 4 11 62 68 include the Society s Membership list v 55 80 include the Journal of applied mechanics also issued separately as contributions from the Society s Applied Mechanics Division **Power** ,1930

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