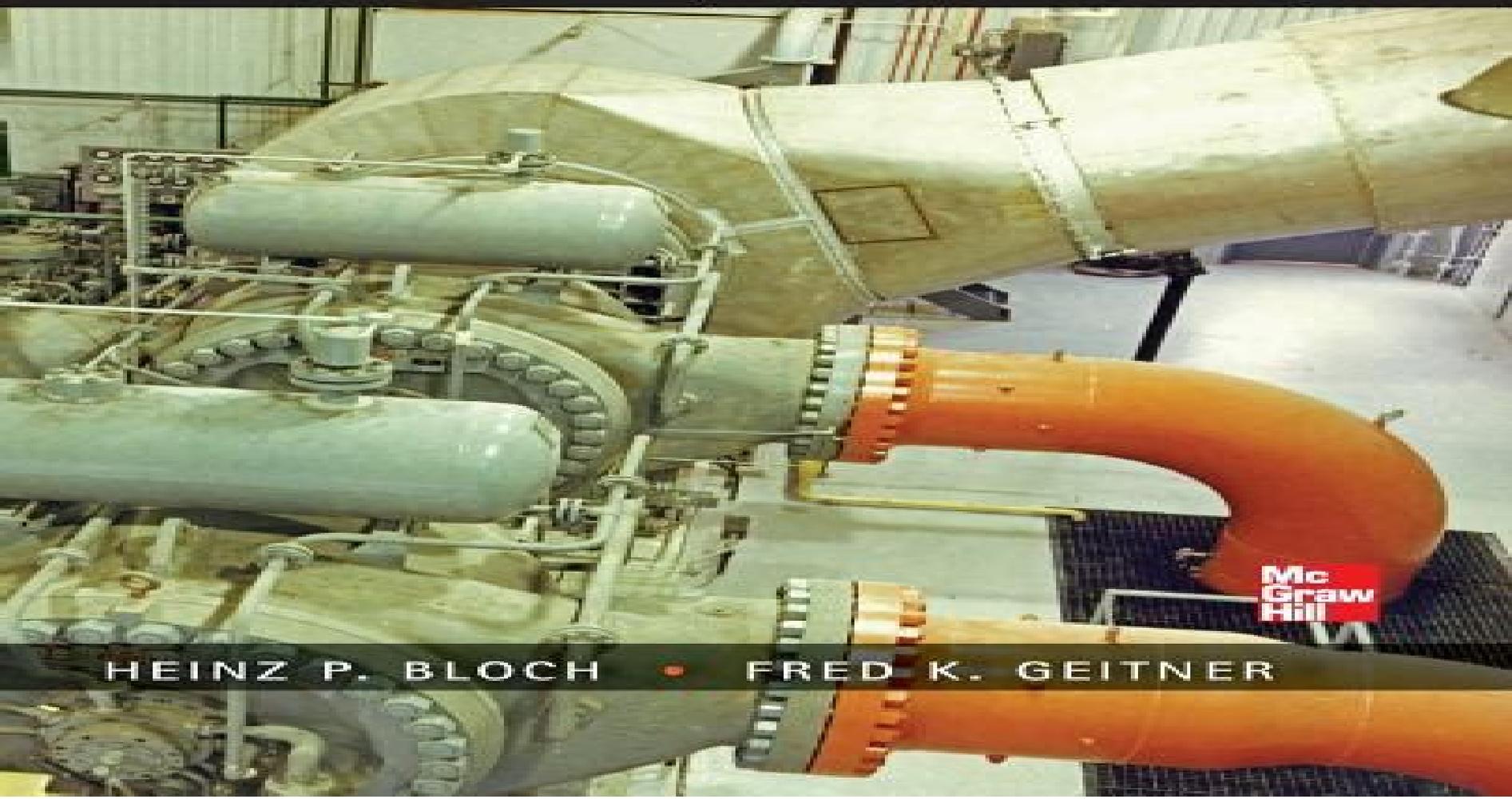


COMPRESSORS

How to Achieve High
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Compressors How To Achieve High Reliability Availability

Heinz P. Bloch, Fred K. Geitner



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Compressors: How to Achieve High Reliability & Availability Heinz P. Bloch, Fred K. Geitner, 2011-07-06 Practical techniques for optimizing compressor performance Written by experts with more than 100 combined years of industry experience in machinery failure avoidance Compressors How to Achieve High Reliability Availability offers proven solutions to a pervasive and expensive problem in modern industry compressor failure This succinct on the job guide addresses elusive causes of compressor failure and clearly maps out permanent remedies you can put to use right away With a focus on centrifugal and reciprocating compressors this accessible reference is based on real world processes and procedures used by successful global companies Coverage includes Compression principles and internal labyrinths Selection factors for process compressors Operation characteristics of turbocompressors Wet and dry gas seals Bearings stability and vibration guidance Lube and seal oil systems Impellers and rotors Compressor maintenance and surveillance Inspection and repair of rotors Machinery quality assessment MQA Failure analysis and troubleshooting Reciprocating compressor operation control maintenance and rebuilding Maintenance and operations interfaces Reciprocating compressor monitoring and surveillance Training competent compressor engineers *Compressors: How to Achieve High Reliability & Availability* Heinz P. Bloch, Fred K. Geitner, 2012-07-03 Publisher's Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product Practical techniques for optimizing compressor performance Written by experts with more than 100 combined years of industry experience in machinery failure avoidance Compressors How to Achieve High Reliability Availability offers proven solutions to a pervasive and expensive problem in modern industry compressor failure This succinct on the job guide addresses elusive causes of compressor failure and clearly maps out permanent remedies you can put to use right away With a focus on centrifugal and reciprocating compressors this accessible reference is based on real world processes and procedures used by successful global companies Coverage includes Compression principles and internal labyrinths Selection factors for process compressors Operation characteristics of turbocompressors Wet and dry gas seals Bearings stability and vibration guidance Lube and seal oil systems Impellers and rotors Compressor maintenance and surveillance Inspection and repair of rotors Machinery quality assessment MQA Failure analysis and troubleshooting Reciprocating compressor operation control maintenance and rebuilding Maintenance and operations interfaces Reciprocating compressor monitoring and surveillance Training competent compressor engineers **A Practical Guide to Compressor Technology** Heinz P. Bloch, 2006-10-25 A Complete overview of theory selection design operation and maintenance This text offers a thorough overview of the operating characteristics efficiencies design features troubleshooting and maintenance of dynamic and positive displacement process gas compressors The author examines a wide spectrum of compressors used in heavy process industries with an emphasis on improving reliability and avoiding failure Readers learn both the theory underlying compressors as well as the

myriad day to day practical issues and challenges that chemical engineers and plant operation personnel must address The text features Latest design and manufacturing details of dynamic and positive displacement process gas compressors Examination of the full range of machines available for the heavy process industries Thorough presentation of the arrangements material composition and basic laws governing the design of all important process gas compressors Guidance on selecting optimum compressor configurations controls components and auxiliaries to maximize reliability Monitoring and performance analysis for optimal machinery condition Systematic methods to avoid failure through the application of field tested reliability enhancement concepts Fluid instability and externally pressurized bearings Reliability driven asset management strategies for compressors Upstream separator and filter issues The text s structure is carefully designed to build knowledge and skills by starting with key principles and then moving to more advanced material Hundreds of photos depicting various types of compressors components and processes are provided throughout Compressors often represent a multi million dollar investment for such applications as petrochemical processing and refining refrigeration pipeline transport and turbochargers and superchargers for internal combustion engines This text enables the broad range of engineers and plant managers who work with these compressors to make the most of the investment by leading them to the best decisions for selecting operating upgrading maintaining and troubleshooting Energy Research Abstracts ,1988

Proceedings of the Eighth International Conference on Offshore Mechanics and Arctic Engineering, 1989:
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