

Centrifugal Compressor Design and Performance



David Japikse

Centrifugal Compressor Design And Performance

Michael Casey, Chris Robinson



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Centrifugal Compressor Design and Performance David Japikse, 1996-01-01 [Design and Analysis of Centrifugal Compressors](#) Rene Van den Braembussche, 2019-04-08 A comprehensive overview of fluid dynamic models and experimental results that can help solve problems in centrifugal compressors and modern techniques for a more efficient aerodynamic design Design and Analysis of Centrifugal Compressors is a comprehensive overview of the theoretical fluid dynamic models describing the flow in centrifugal compressors and the modern techniques for the design of more efficient centrifugal compressors The author a noted expert in the field with over 40 years of experience evaluates relevant numerical and analytical prediction models for centrifugal compressors with special attention to their accuracy and limitations Relevant knowledge from the last century is linked with new insights obtained from modern CFD Emphasis is to link the flow structure performance and stability to the geometry of the different compressor components Design and Analysis of Centrifugal Compressors is an accessible resource that combines theory with experimental data and previous research with recent developments in computational design and optimization This important resource Covers the basic information concerning fluid dynamics that are specific for centrifugal compressors and clarifies the differences with axial compressors Provides an overview of performance prediction models previously developed in combination with extra results from research conducted by the author Describes helpful numerical and analytical models for the flow in the different components in relation to flow stability operating range and performance Includes the fundamental information for the aerodynamic design of more efficient centrifugal compressors Explains the use of computational fluid dynamics CFD for the design and analysis of centrifugal compressors Written for engineers researchers and designers in industry as well as for academics specializing in the field Design and Analysis of Centrifugal Compressors offers an up to date overview of the information needed for the design of more effective centrifugal compressors *Centrifugal Compressor Design and Performance* David Japikse, 1988

Centrifugal Compressor Design and Performance David Japikse, 1983 **Advanced Concepts in Centrifugal Compressor** David Japikse, 1983 **Process Centrifugal Compressors** Klaus H. Lüdtke, 2013-03-09 Throughout the last decades centrifugal compressor research and development have been revolutionized Computational fluid dynamics have provided a better understanding of the flow and physical phenomena and the design of new centrifugal compressor components has been transformed from an art into a science New materials and manufacturing techniques now create new geometries that could only be dreamed of in the past and new challenging applications have pushed the limits beyond what was considered the state of the art This new book presenting a comprehensive look at industrial compressors is therefore very timely Readers will find a large amount of information based on extensive experience a clear and well founded approach to real gas handling and solutions to many practical problems It will provide engineering contractors and users of industrial compressors with a better insight into the how and why of different design features thus allowing a more profound basis for

discussions with manufacturers It will also cast a light on the day by day design practice to academia by revealing the limitations and requirements of practical applications and economics This book combines a strict mathematical approach with practical experience and is illustrated with many examples It fills in the gap between academic text books and encyclopaedic descriptions of industrial compressors I have no doubt that this book based on several decades of experience in the industry both in the USA and Europe will be well received by the centrifugal compressor community

Centrifugal Compressors Ronald H. Aungier,2000 A mechanical engineer with a Pennsylvania turbomachinery company A ungier describes his own system and strategy for designing and analyzing centrifugal compressor aerodynamics To address the novice as well as the experienced in the field he presents the basic thermodynamic and fluid dynamic principles empirical models and key numerical methods that form the basis of his methods His strategy or design practice he found harder to describe because it involves a process of reasoning rather than following an established set of principles He recognizes that his is only one of many possible methods but makes no effort to compare or contrast his with any other

Centrifugal Compressors Meherwan P. Boyce,2003 Boyce provides an up to date reference covering all major aspects of design operation and maintenance He includes technical details on sizing plant layout fuel selection types of drives and performance characteristics of all major components in a co generation or combined cycle power plant Contents Section 1 Design theory and practice An history and overview of centrifugal compressors Aerothermodynamics of compressors Two dimensional design of compressor stages Three dimensional flow in a centrifugal compressor Diffuser design Surge and surge control Off design performance characteristics Mechanical equipment standards An overview of steam turbines An overview of motor drives Appendices General properties of air general properties of gases Equivalent units Index Summary

[Development of a Design and Performance Analysis Tool for a Family of Centrifugal Compressor Volutes](#) Guy Phuong,2003

Radial Flow Turbocompressors Michael Casey,Chris Robinson,2021-06-10 An introduction to the theory and engineering practice that underpins the component design and analysis of radial flow turbocompressors Drawing upon an extensive theoretical background and years of practical experience the authors provide descriptions of applications concepts component design analysis tools performance maps flow stability and structural integrity with illustrative examples Features wide coverage of all types of radial compressor over many applications unified by the consistent use of dimensional analysis Discusses the methods needed to analyse the performance flow and mechanical integrity that underpin the design of efficient centrifugal compressors with good flow range and stability Includes explanation of the design of all radial compressor components including inlet guide vanes impellers diffusers volutes return channels de swirl vanes and side streams Suitable as a reference for advanced students of turbomachinery and a perfect tool for practising mechanical and aerospace engineers already within the field and those just entering it

Design and Performance of Centrifugal and Axial Flow Pumps and Compressors Andreas von Kovats,1964

Compressor Performance Theodore Gresh,2001-05-17 Compressor

Performance is a reference book and CD ROM for compressor design engineers and compressor maintenance engineers as well as engineering students The book covers the full spectrum of information needed for an individual to select operate test and maintain axial or centrifugal compressors It includes basic aerodynamic theory to provide the user with the how s and why s of compressor design Maintenance engineers will especially appreciate the troubleshooting guidelines offered Includes many example problems and reference data such as gas properties and flow meter calculations to enable easy analysis of compressor performance in practice Includes companion CD with computer programs M Theodore Gresh has been with the Elliot Company in Jeannette Pennsylvania since 1975 initially working on the mechanical and aerodynamic design and application of centrifugal compressors Unrivalled coverage of the theory and practical use of all kinds of compressors in industrial use from an industry leading company source Complete subject reference and learning resource in one stop suitable for newly graduated engineers and experienced professional reference use Includes companion CD ROM

Performance of a Low-pressure-ratio Centrifugal Compressor with Four Diffuser Designs Hugh A. Klassen, 1973

Proceedings of the 3rd International Seminar on Non-Ideal Compressible Fluid Dynamics for Propulsion and Power Matteo Pini, Carlo De Servi, Andrea Spinelli, Francesca di Mare, Alberto Guardone, 2021-02-12 This book contains a collection of the main contributions from the third edition of the NICFD conference organized by the Special Interest Group on Non Ideal Compressible Fluid Dynamics SIG 49 It provides insight on the latest research findings in the field of NICFD that are relevant to a number of engineering applications related to the conversion of renewable and waste energy sources like organic Rankine cycles supercritical CO₂ cycle power plants combustors operating with supercritical fluids and heat pumps The various chapters of the book document research encompassing theoretical computational and experimental aspects of the gas dynamics of non ideal reactive and non reactive flows and their impact for the design of internal flow components turbomachinery heat exchangers combustors Since the accurate calculation of fluid thermo physical properties is of great concern in NICFD all the chapters address this problem by describing state of the art models for the characterization of the properties of pure fluids and mixtures

The Performance of a 6.5 Pressure Ratio Centrifugal Compressor Having a Radially-Vaned Impeller Great Britain. Ministry of Defence. Procurement Executive. Aeronautical Research Council, M. G. Jones, AERONAUTICAL RESEARCH COUNCIL LONDON (England), H.M.S.O., 1976 The aerodynamic design and experimental performance of a centrifugal compressor designed for a pressure ratio of 6.5 and a specific speed of 68 are described The compressor consisted of a radially vaned impeller and a transonic vaned radial diffuser At design speed a peak overall total to total isentropic efficiency of 0.746 was achieved at the maximum pressure ratio of 5.9 rising to 0.79 at a pressure ratio of 3.5 at 80 per cent speed A theoretical analysis of the impeller channel flow suggests that high vane to vane aerodynamic loading was partly responsible for the shortfall in performance The impeller was also tested with a vaneless diffuser and a detailed analysis is made of static pressure measurements on the impeller shroud and vaneless and

vaned diffuser walls Several recommendations are made regarding the design and testing of centrifugal compressors Author Fluid Machinery and Fluid Mechanics Jianzhong Xu, Yulin Wu, Yangjun Zhang, Junyue Zhang, 2010-07-05 Fluid Machinery and Fluid Mechanics 4th International Symposium 4th ISFMFE is the proceedings of 4th International Symposium on Fluid Machinery and Fluid Engineering held in Beijing November 24-27 2008 It contains 69 highly informative technical papers presented at the Mei Lecture session and the technical sessions of the symposium The Chinese Society of Engineering Thermophysics CSET organized the First, the Second, and the Third International Symposium on Fluid Machinery and Fluid Engineering 1996, 2000, and 2004 The purpose of the 4th Symposium is to provide a common forum for exchange of scientific and technical information worldwide on fluid machinery and fluid engineering for scientists and engineers The main subject of this symposium is Fluid Machinery for Energy Conservation The Mei Lecture reports on the most recent developments of fluid machinery in commemoration of the late professor Mei Zuyan The book is intended for researchers and engineers in fluid machinery and fluid engineering Jianzhong Xu is a professor at the Chinese Society of Engineering Thermophysics Chinese Academy of Sciences Beijing Centrifugal Compressors SAE Powerplant Activity Committee, 1961 *DESIGN AND DEVELOPMENT OF SMALL, SINGLE-STAGE CENTRIFUGAL COMPRESSOR.*, 1967 The purpose of the work was to define by analysis and experimental evaluation the design criteria and performance characteristics of the high pressure ratio single stage centrifugal compressor The overall performance target was a pressure ratio of 10:1 at an adiabatic efficiency of 80 percent at an airflow of 2 pounds per second The research was expected to lead to development of advanced technologies applicable to small gas turbine engines The potential advances identified were 1 Doubling of current power to weight ratio 2 Reducing full and part load fuel consumption and 3 Minimizing cost per horsepower To illustrate the advances possible two types of thermodynamic cycles simple and regenerative were studied It was shown that a compressor meeting the above targets would provide an opportunity for reducing specific fuel consumptions to 0.49 pound per horsepower per hour simple cycle and 0.38 pound per horsepower per hour regenerative This report presents the design and test results of a single stage high pressure ratio 10:1 centrifugal compressor Impeller and diffuser modifications are discussed including diffuser throat boundary layer bleed **The Third International Conference on Turbocharging and Turbochargers**, 1986 **Fluids Engineering Conference - Proceedings of the International Joint U. S.-European ASME Conference (2002: Montreal, Canada)** Dieter Mewes, 2002 Annotation This is Volume 2 in two parts of the proceedings of a July 2002 conference on a wide range of topics related to fluids engineering analysis numerical methods experiments in single phase and multiphase flows and applications In Part A about 70 contributions discuss flows in manufacturing processes experimental and numerical flow visualization and laser anemometry erosion processes fluid structure interaction and flow induced noise in industrial applications numerical methods for multiphase flows numerical developments in CFD and non invasive measurement in multiphase flows Part B approximately 60 contributions covers advances in numerical modeling of

aerodynamics and hydrodynamics in turbomachinery fluid flow in micro systems measurements analysis and applications the measurement and modeling of large scale turbulent structures and fluids engineering There is no subject index Annotation c Book News Inc Portland OR booknews com

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