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Working Fluid  
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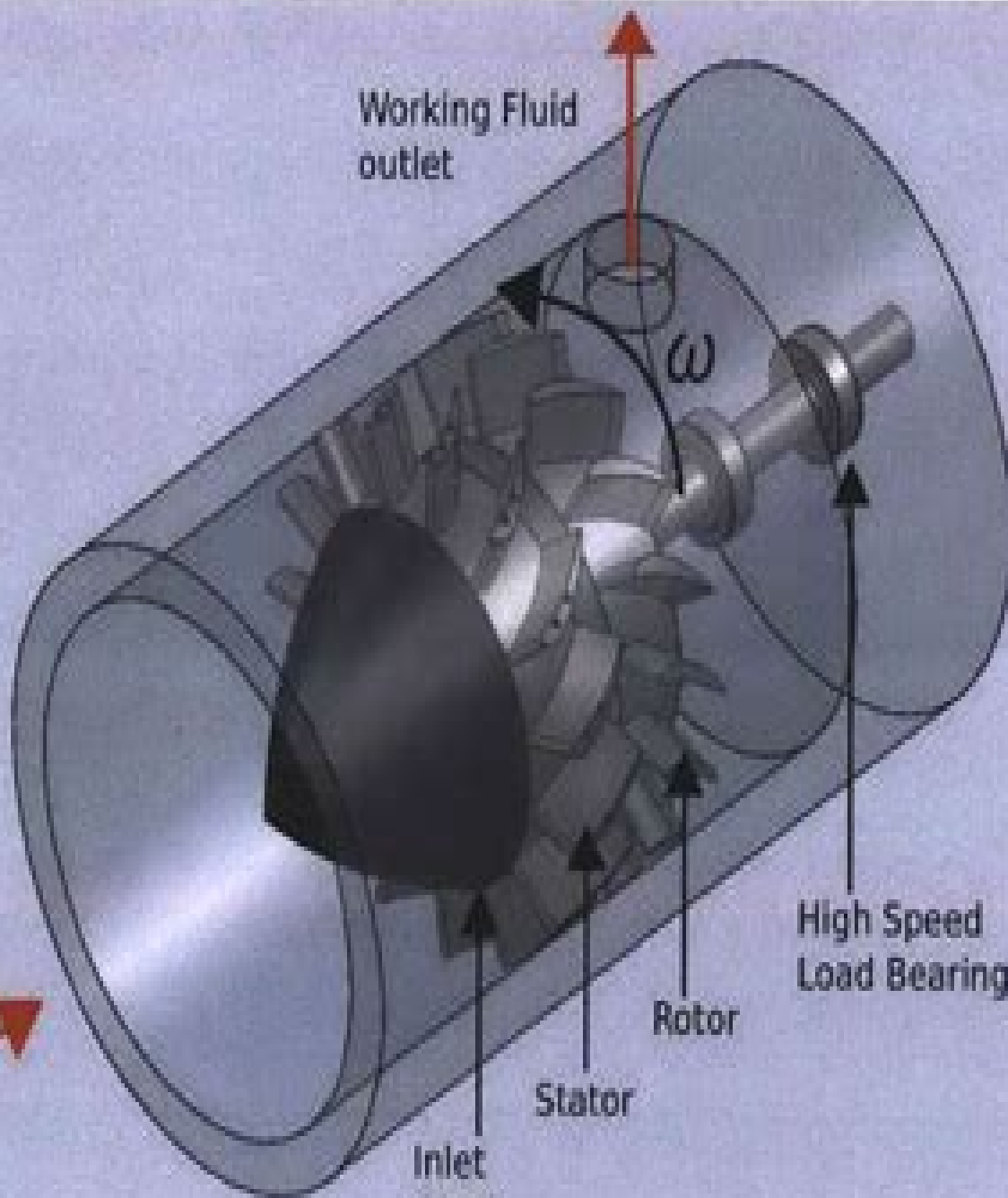
$\omega$

High Speed  
Load Bearing

Rotor

Stator

Inlet  
Cone



# Design Of An Axial Turbine And Thermodynamic Analysis And

**Sydney Lawrence Dixon**



## **Design Of An Axial Turbine And Thermodynamic Analysis And:**

**Design of an Axial Turbine and Thermodynamic Analysis and Testing of a K03 Turbocharger** Yoshio Samaizu Perez Zuñiga, Massachusetts Institute of Technology. Department of Mechanical Engineering, 2011 A novel humidification dehumidification desalination system was developed at the Rohsenow Kendall Heat Transfer Laboratory The HDH system runs by having different pressures in the humidifier and dehumidifier One of the components that will keep the different pressures is an expander The expander specification is to work with a pressure ratio of 1.2 while having a high efficiency Two approaches were developed to achieve this result one was through the design of a turbine and the second was through the selection and testing of a car turbocharger The design of a turbine is given in detail and follows the process given in Design of High Efficiency Turbomachinery and Gas Turbines by David Wilson The final design of the turbine blades was sand cast Due to the sand casting process cavitation on the blade material was shown and testing of the blades was not pursued for fear of fast fracturing The second option of selecting a turbocharger is shown and the process which led to its selection is explained Through such process a K03 turbocharger was selected to be suitable to run at the low pressure ratios with a moderate efficiency Testing of the K03 was conducted The static to static isentropic efficiency calculated was 53% 11% for a pressure ratio of 1.2 while the total to total isentropic efficiency 60% 14% at a pressure ratio of 1.2 The high error associated with the efficiencies are due to the turbine experiencing small temperature drops in the order of 10 C or less The K03 turbocharger is meant to run at higher pressure ratios in the order of 2 with a manufacturer specified efficiency of 70% Running the K03 at a pressure ratio of 1.2 decreases the efficiency since its not specified to run at those low pressure ratios If a turbine or a turbocharger is designed for the exact specifications of the desalination system it can work with low pressure ratios and be highly efficient

Fluid Mechanics and Thermodynamics of Turbomachinery S. Larry Dixon, Cesare Hall, 2010-02-17 Turbomachinery is a challenging and diverse field with applications for professionals and students in many subsets of the mechanical engineering discipline including fluid mechanics combustion and heat transfer dynamics and vibrations as well as structural mechanics and materials engineering Originally published more than 40 years ago Fluid Mechanics and Thermodynamics of Turbomachinery is the leading turbomachinery textbook Used as a core text in senior undergraduate and graduate level courses this book will also appeal to professional engineers in the aerospace global power oil gas and other industries who are involved in the design and operation of turbomachines For this new edition author S Larry Dixon is joined by Cesare Hall from the University of Cambridge whose diverse background of teaching research and work experience in the area of turbomachines is well suited to the task of reorganizing and updating this classic text Provides the most comprehensive coverage of the fundamentals of turbomachinery of any text in the field Content has been reorganized to more closely match how instructors currently teach the course with coverage of fluid mechanics and thermodynamics moved to the front of the book Includes new design studies of several turbomachines applying the theories

developed in the book *Fluid Mechanics and Thermodynamics of Turbomachinery* Dan Zhao, S. Larry Dixon, Cesare Hall, 2025-05-05 *Fluid Mechanics and Thermodynamics of Turbomachinery* Eighth Edition is the leading turbomachinery book with its balanced coverage of theory and application Starting with background principles in fluid mechanics and thermodynamics this updated edition goes on to discuss axial flow turbines and compressors centrifugal pumps fans and compressors and radial flow gas turbines hydraulic turbines and wind turbines Used as a core text in senior undergraduate and graduate level courses this book will also appeal to professional engineers in the aerospace global power oil gas and other industries who are involved in the design and operation of turbomachines Provides the most comprehensive coverage of turbomachinery fundamentals of any text in the field Examines through the laws of fluid mechanics and thermodynamics the means by which energy transfer is achieved in the chief types of turbomachines together with the differing behavior of individual types in operation Discusses important aspects concerning the criteria of blade selection and blade manufacture control methods for regulating power output and rotor speed and performance testing Includes coverage of public and environmental issues which are becoming increasingly important as they can affect the development of wind turbines Online teaching ancillaries include a fully updated solutions manual and image bank *NASA Tech Brief*, 1970 *Desalination* Jane Kucera, 2019-04-16 This all new revised edition of a modern classic is the most comprehensive and up to date coverage of the green process of desalination in industrial and municipal applications covering all of the processes and equipment necessary to design operate and troubleshoot desalination systems This is becoming increasingly more important for not only our world's industries but our world's populations as pure water becomes more and more scarce Blue is the new green This is an all new revised edition of a modern classic on one of the most important subjects in engineering Water Featuring a total revision of the initial volume this is the most comprehensive and up to date coverage of the process of desalination in industrial and municipal applications a technology that is becoming increasingly more important as more and more companies choose to go green This book covers all of the processes and equipment necessary to design operate and troubleshoot desalination systems from the fundamental principles of desalination technology and membranes to the much more advanced engineering principles necessary for designing a desalination system Earlier chapters cover the basic principles the economics of desalination basic terms and definitions and essential equipment The book then goes into the thermal processes involved in desalination such as various methods of evaporation distillation recompression and multistage flash Following that is an exhaustive discussion of the membrane processes involved in desalination such as reverse osmosis forward osmosis and electrodialysis Finally the book concludes with a chapter on the future of these technologies and their place in industry and how they can be of use to society This book is a must have for anyone working in water for engineers technicians scientists working in research and development and operators It is also useful as a textbook for graduate classes studying industrial water applications *Fluid Mechanics and Thermodynamics of Turbomachinery* Sydney Lawrence

Dixon,1998 In the intervening 20 years since the 3rd edition of this textbook many advances have been made in the design of turbines and greater understanding of the processes involved have been gained This 4th edition brings the book up to date

**Proceedings of the International Conference on Aerospace System Science and Engineering 2020** Zhongliang Jing,Xingqun Zhan,2021-06-01 This book presents high quality contributions in the subject area of Aerospace System Science and Engineering including topics such as Trans space vehicle systems design and integration Air vehicle systems Space vehicle systems Near space vehicle systems Opto electronic system Aerospace robotics and unmanned system Aerospace robotics and unmanned system Communication navigation and surveillance Dynamics and control Intelligent sensing and information fusion Aerodynamics and aircraft design Aerospace propulsion Avionics system Air traffic management Earth observation Deep space exploration and Bionic micro aircraft spacecraft The book collects selected papers presented at the 4th International Conference on Aerospace System Science and Engineering ICASSE 2020 organized by Shanghai Jiao Tong University China held on 14 16 July 2020 as virtual event due to COVID 19 It provides a forum for experts in aeronautics and astronautics to share new ideas and findings ICASSE conferences have been organized annually since 2017 and hosted in Shanghai Moscow and Toronto in turn where the three regional editors of the journal Aerospace Systems are located

*Aerodynamics of Turbines and Compressors. (HSA-1), Volume 1* William R. Hawthorne,2017-03-14 Volume X of the High Speed Aerodynamics and Jet Propulsion series Contents include Theory of Two Dimensional Flow through Cascades Three Dimensional Flow in Turbomachines Experimental Techniques Flow in Cascades The Axial Compressor Stage The Supersonic Compressor Aerodynamic Design of Axial Flow Turbines The Radial Turbine The Centrifugal Compressor Intermittent Flow Effects Originally published in 1964 The Princeton Legacy Library uses the latest print on demand technology to again make available previously out of print books from the distinguished backlist of Princeton University Press These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905 Proceedings of the Second International Conference

on Emerging Trends in Engineering (ICETE 2023) Bhiksha Raj,Steve Gill,Carlos A.Gonzalez Calderon,Onur Cihan,Purushotham Tukkaraja,Sriram Venkatesh,Venkataramayya M. S.,Malini Mudigonda,Mallesham Gaddam,Rama Krishna Dasari,2023-11-09 This is an open access book The 2nd International Conference on Emerging Trends in Engineering ICETE 2023 will be held in person from April 28 30 2023 at University College of Engineering Osmania University Hyderabad India Since its inception in 2019 The International Conference on Emerging Trends in Engineering ICETE has established to enhance the information exchange of theoretical research and practical advancements at national and international levels in the fields of Bio Medical Civil Computer Science Electrical Electronics Communication Engineering Mechanical and Mining Engineering This encourages and promotes professional interaction among students

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**Simulation Tools and Methods for Supercritical Carbon Dioxide Radial Inflow Turbine** Jianhui Qi,2023-01-01 To protect the Earth China has launched its target of peaking carbon dioxide emissions by 2030 and achieving carbon neutrality by 2060 which greatly encourages the use and development of renewable energy Supercritical CO<sub>2</sub> power cycle is a promising technology and the radial inflow turbine is the most important component of it whose design and optimisation are considered as great challenges This book introduces simulation tools and methods for supercritical CO<sub>2</sub> radial inflow turbine including a high fidelity quasi one dimensional design procedure a non ideal compressible fluid dynamics Riemann solver within open source CFD software OpenFOAM framework and a multi objective Nelder Mead geometry optimiser Enhanced one dimensional loss models are presented for providing a new insight towards the preliminary design of the supercritical CO<sub>2</sub> radial inflow turbine Since the flow phenomena within the blade channels are complex involving fluid flow shock wave transmission and boundary layer separation only employing the ideal gas model is inadequate to predict the performance of the turbine Thus a non ideal compressible fluid dynamics Riemann solver based on OpenFOAM library is developed This book addresses the issues related to the turbine design and blade optimization and provides leading techniques Hence this book is of great value for the readers working on the supercritical CO<sub>2</sub> radial inflow turbine and understanding the knowledge of CFD and turbomachinery      *Aircraft Propulsion and Gas Turbine Engines* Ahmed F. El-Sayed,2008-02-27 The escalating use of aircraft in the 21st century demands a thorough understanding of engine propulsion concepts including the performance of aero engines Among other critical activities gas turbines play an extensive role in electric power generation and marine propulsion for naval vessels and cargo ships In the most exhaustive volume to date this text examines the foundation of aircraft propulsion aerodynamics interwoven with thermodynamics heat transfer and mechanical design With a finely focused approach the author devotes each chapter to a particular engine type such as ramjet and pulsejet turbojet and turbofan Supported by actual case studies he illustrates engine performance under various operating conditions Part I discusses the history classifications and performance of air breathing engines Beginning with Leonardo and continuing on to the emergence of the jet age and beyond this section chronicles inventions up through the 20th century It then moves into a detailed discussion of different engine types including pulsejet ramjet single and multi spool turbojet and turbofan in both subsonic and supersonic applications The author discusses Vertical Take Off and Landing aircraft and provides a

comprehensive examination of hypersonic scramjet and turbo ramjet engines He also analyzes the different types of industrial gas turbines having single and multi spool with intercoolers regenerators and reheaters Part II investigates the design of rotating compressors and turbines and non rotating components intakes combustion chambers and nozzles for all modern jet propulsion and gas turbine engine systems along with their performance Every chapter concludes with illustrative examples followed by a problems section for greater clarity some provide a listing of important mathematical relations

**Cumulative Index to NASA Tech Briefs** United States. National Aeronautics and Space Administration,1970

**Fundamentals of Chemical Engineering Thermodynamics** Themis Matsoukas,2013 Fundamentals of Chemical Engineering Thermodynamics is the clearest and most well organized introduction to thermodynamics theory and calculations for all chemical engineering undergraduates This brand new text makes thermodynamics far easier to teach and learn Drawing on his award winning courses at Penn State Dr Themis Matsoukas organizes the text for more effective learning focuses on why as well as how offers imagery that helps students conceptualize the equations and illuminates thermodynamics with relevant examples from within and beyond the chemical engineering discipline Matsoukas presents solved problems in every chapter ranging from basic calculations to realistic safety and environmental applications

**NASA Scientific and Technical Reports** United States. National Aeronautics and Space Administration Scientific and Technical Information Division,1968      **Modern Research Topics in Aerospace Propulsion** Gianfranco Angelino,Luigi De Luca,William A. Sirignano,2012-12-06 This volume published in honor of Professor Corrado Casci celebrates the life of a very distinguished international figure devoted to scientific study research teaching and leadership The numerous contributions of Corrado Casci are widely admired by scientists and engineers around the globe He has been an impressive model and outstanding colleague to many researchers Unfortunately only a few of them could be invited to contribute to this honorific volume Everyone of the invited contributors responded with enthusiasm v Corrado Casci Contents Preface v Contributors IX Curriculum Vitae XI Publications of Corrado Casci xix I Combustion 1 Mechanics of Turbulent Flow in Combustors for Premixed Gases 3 A K OPPENHEIM 2 A Pore Structure Independent Combustion Model for Porous Media with Application to Graphite Oxidation 19 M B RICHARDS AND S S PENNER 3 Stabilization of Hydrogen Air Flames in Supersonic Flow 37 G WINTERFELD 4 Thermodynamics of Refractory Material Formation by Combustion Techniques 49 I GLASSMAN K BREZINSKY AND K A DAVIS 5 Catalytic Combustion Processes 63 A P GLASKOVA 6 Stability of Ignition Transients of Reactive Solid Mixtures 83 V E ZARKO 7 Combustion Modeling and Stability of Double Base Solid Rocket Propellants 109 L DE LUCA AND L GALFETTI 8 Combustion Instabilities and Rayleigh's Criterion 135 F E C CULICK II Liquid Sprays 9 On the Anisotropy of Drop and Particle Velocity Fluctuations in Two Phase Round Gas Jets 155 A TOMBOULIDES M I ANDREWS AND F V BRACCO vii viii Contents 10      **Advances in Water Desalination** Noam Lior,2012-10-26 Desalination is a dynamically growing field with more research more engineering more applications more countries more people and with

more training programs This book provides high quality invited reviews on progress in various aspects of the desalination field It features comprehensive coverage of desalination science technology economics markets energy considerations environmental impact and more It is a key guide for professionals and researchers in water desalination and related areas including chemical mechanical and civil engineers chemists materials scientists manufacturers of desalination membranes water reuse engineers and water authorities as well as students in these fields      *Computer Program Abstracts* ,1971

**ASME COGEN TURBO Power** ,1993      China Science & Technology Abstracts ,1981

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- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Design Of An Axial Turbine And Thermodynamic Analysis And.

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