

# **Advanced Gas Turbine Cycles**

Adrian Bejan

#### **Advanced Gas Turbine Cycles:**

Advanced Gas Turbine Cycles J.H. Horlock, 2013-10-22 Primarily this book describes the thermodynamics of gas turbine cycles The search for high gas turbine efficiency has produced many variations on the simple open circuit plant involving the use of heat exchangers reheating and intercooling water and steam injection cogeneration and combined cycle plants These are described fully in the text A review of recent proposals for a number of novel gas turbine cycles is also included In the past few years work has been directed towards developing gas turbines which produce less carbon dioxide or plants from which the CO2 can be disposed of the implications of a carbon tax on electricity pricing are considered. In presenting this wide survey of gas turbine cycles for power generation the author calls on both his academic experience at Cambridge and Liverpool Universities the Gas Turbine Laboratory at MIT and Penn State University and his industrial work primarily with Rolls Royce plc The book will be essential reading for final year and masters students in mechanical engineering and for Combustion in Advanced Gas Turbine Systems I. E. Smith, 2014-05-17 Cranfield International practising engineers Symposium Series Volume 10 Combustion in Advanced Gas Turbine Systems covers the proceedings of an International Propulsion Symposium held at the College of Aeronautics in Cranfield in April 1967 The book focuses on the processes methodologies reactions and transformations involved in chemical combustion. The selection first takes a look at the design considerations in advanced gas turbine combustion chambers combustion in industrial gas turbines and combustion development on the Rolls Royce Spey engine Discussions focus on mechanical condition carbon formation and exhaust smoke system requirements fuel oil ash deposition and corrosion combustion system design performance requirements types of primary zone fuel injection and combustion chamber types The text then examines subsonic flow flameholder studies using a low pressure simulation technique stabilization of hydrogen diffusion flames by flame holders in supersonic flow at low stagnation temperatures and augmentation systems for turbofan engines The book takes a look at a consideration of the possible use of refractory ceramic materials for advanced combustion chamber design cooling of flame tubes by steam injection and combustion problems in the massive steam injection gas turbine The selection is a valuable source of information for researchers interested in the process of combustion in advanced gas turbine systems Carbon Dioxide Capture and Storage Intergovernmental Panel on Climate Change. Working Group III., 2005-12-19 IPCC Report on sources capture transport and storage of CO2 for researchers policy makers and engineers Fiscal Year 1993 DOE Conservation and Renewable Energy Research and Development Programs United States. Congress. House. Committee on Science, Space, and Technology. Subcommittee on Environment, 1992 Advanced Technologies for Gas Turbines National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Aeronautics and Space Engineering Board, Committee on Advanced Technologies for Gas Turbines, 2020-04-19 Leadership in gas turbine technologies is of continuing importance as the value of gas turbine production is projected to

grow substantially by 2030 and beyond Power generation aviation and the oil and gas industries rely on advanced technologies for gas turbines Market trends including world demographics energy security and resilience decarbonization and customer profiles are rapidly changing and influencing the future of these industries and gas turbine technologies Technology trends that define the technological environment in which gas turbine research and development will take place are also changing including inexpensive large scale computational capabilities highly autonomous systems additive manufacturing and cybersecurity It is important to evaluate how these changes influence the gas turbine industry and how to manage these changes moving forward Advanced Technologies for Gas Turbines identifies high priority opportunities for improving and creating advanced technologies that can be introduced into the design and manufacture of gas turbines to enhance their performance. The goals of this report are to assess the 2030 gas turbine global landscape via analysis of global leadership market trends and technology trends that impact gas turbine applications develop a prioritization process define high priority research goals identify high priority research areas and topics to achieve the specified goals and direct future research Findings and recommendations from this report are important in guiding research within the gas turbine industry and advancing electrical power generation commercial and military aviation and oil and gas production Energy Systems Nik Khartchenko, Nikolai V. Khartchenko, Vadym M. Kharchenko, 1997-11-01 This text deals with advanced energy systems that are sensitive to the environment such as combined cycle power plants. The text analyzes major advanced power generation technologies and it gives an outlook to the future of power engineering Among the features of this book are over 50 solved problems examples included at the end of each chapter a state of the art analysis of advanced energy and emerging technologies and full figures appendices and references Investigation of Advanced Gas Turbine Cycles M. Nakhamkin, M. Patel, Energy Storage & Power Consultants\*, Electric Power Research Institute, 1993 Advanced Engineering Thermodynamics Adrian Bejan, 2016-09-06 An advanced practical approach to the first and second laws of thermodynamics Advanced Engineering Thermodynamics bridges the gap between engineering applications and the first and second laws of thermodynamics Going beyond the basic coverage offered by most textbooks this authoritative treatment delves into the advanced topics of energy and work as they relate to various engineering fields. This practical approach describes real world applications of thermodynamics concepts including solar energy refrigeration air conditioning thermofluid design chemical design constructal design and more This new fourth edition has been updated and expanded to include current developments in energy storage distributed energy systems entropy minimization and industrial applications linking new technologies in sustainability to fundamental thermodynamics concepts Worked problems have been added to help students follow the thought processes behind various applications and additional homework problems give them the opportunity to gauge their knowledge The growing demand for sustainability and energy efficiency has shined a spotlight on the real world applications of thermodynamics This book helps future engineers make the fundamental connections and

develop a clear understanding of this complex subject Delve deeper into the engineering applications of thermodynamics Work problems directly applicable to engineering fields Integrate thermodynamics concepts into sustainability design and policy Understand the thermodynamics of emerging energy technologies Condensed introductory chapters allow students to quickly review the fundamentals before diving right into practical applications Designed expressly for engineering students this book offers a clear targeted treatment of thermodynamics topics with detailed discussion and authoritative guidance toward even the most complex concepts Advanced Engineering Thermodynamics is the definitive modern treatment of energy and work for today s newest engineers Ericsson Cycle Gas Turbine Powerplants W. H. Krase, 1979 A preliminary exploration of a potentially low cost gas turbine thermodynamic cycle that appears capable of unprecedented efficiency. The cycle approximates an Ericsson cycle and uses stepwise expansions in turbines with intervening reheat and stepwise compression with intervening intercooling At a peak cycle temperature of 1500 deg F and using five stages of compression and expansion a 50 percent thermal efficiency is attainable with previously demonstrated component performance This performance requires no extremes of pressure or temperature no new materials and no fundamentally new techniques The cycle is not complicated in comparison with advanced gas turbine steam turbine cycles now being considered for high efficiency fossil fuel fired plants In addition the low temperatures required by the Ericsson cycle would eliminate many problems presented by other cycles This analysis indicates that detailed study of fuels and applications design and plant layout costs and fuel processing losses for the Ericsson cycle approximation is warranted Submarine Advanced Reactor Gas Turbine Cycle Study E. A. Sheehan, A. O. White, 1953

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