

The Development of Gas Turbine Materials

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The Development Of Gas Turbine Materials

B. J. Pearcey, F. L. VerSnyder



The Development Of Gas Turbine Materials:

The Development of Gas Turbine Materials G.W. Meetham, 2012-12-06 The turbine has many advantages over other prime movers for producing power The first turbine used water as the working fluid and this principle is still used in hydro electric power generation The steam turbine was developed late in the nineteenth century and was first applied to marine propulsion by Parsons in 1897 Since that time it has become the most widely used prime mover in electricity generation and marine propulsion The equipment required to generate steam is bulky however and it was realised that much more compact power plant could be designed if the hot gases used for steam generation could drive the turbine directly Early attempts to produce gas turbines were unsuccessful for several reasons one major problem being that materials with the capability of operating at sufficiently high stresses and temperatures were not available Following the first experimental Whittle engine in 1937 the emphasis on the development of the gas turbine engine for aircraft propulsion during World War II changed this situation dramatically Gas turbine powered civil aircraft entered airline service in the early 1950s and gas turbines also began to compete successfully in other fields Apart from the aircraft market they have been used widely in pumping sets for oil and gas transmission pipelines and peak load electricity generation Use in warship propulsion is increasing and there is currently major activity in the USA in particular in developments for vehicular propulsion *Materials for High*

Temperature Engineering Applications G.W. Meetham, M.H. Van de Voorde, 2000-04-14 This concise survey describes the requirements on materials operating in high temperature environments and the processes increasing temperature capability of metals ceramics and composites The major part deals with the applicable materials and their specific properties One chapter is devoted to coatings The book is written for engineering and science students researchers and managers in industries Gas Turbine Materials Conference Proceedings, Oct. 1972 United States. Navy Department, 1972 *Surface*

Engineering Casebook J S Burnell-Gray, Prasanta Kumar Datta, 1996-01-30 Overview of surface engineering technologies Electroless nickel coatings case study Thermal spraying an overview **Gas Turbine Materials** Geoffrey Lucas, James Francis Pollock, 1957 **A New Development in Gas Turbine Materials** B. J. Pearcey, F. L. VerSnyder, 1965

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 *Advances in Gas Turbine Technology* Ernesto Benini,2011-11-04 Gas turbine engines will still represent a key technology in the next 20 year energy scenarios either in stand alone applications or in combination with other power generation equipment This book intends in fact to provide an updated picture as well as a perspective vision of some of the major improvements that characterize the gas turbine technology in different applications from marine and aircraft propulsion to industrial and stationary power generation Therefore the target audience for it involves design analyst materials and maintenance engineers Also manufacturers researchers and scientists will benefit from the timely and accurate information provided in this volume The book is organized into five main sections including 21 chapters overall I Aero and Marine Gas Turbines II Gas Turbine Systems III Heat Transfer IV Combustion and V Materials and Fabrication **Scientific and Technical Aerospace Reports** ,1987 **Evaluation of Coolants and Moderators for the Maritime Gas-cooled Reactor** ,1958

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