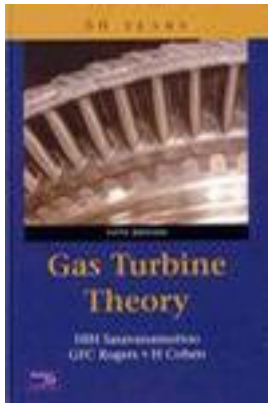


Gas Turbine Theory (5th Edition)



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Gas Turbine Theory, 5th edition H.H. Saravanamuttoo, G.F.C. Rogers, H. Cohen When the First Edition of this book was written fifty years ago, the gas turbine was just becoming established as a powerplant for military aircraft. It took another decade before the gas turbine was introduced to civil aircraft, and this market developed so rapidly that the ocean liner was rendered obsolete. Other markets like naval propulsion, pipeline compression and electrical power applications grew steadily. In recent years the gas turbine, in combination with the steam turbine, has played an ever-increasing role in power generation. Despite the rapid advances in both output and efficiency, the basic theory of the gas turbine has remained unchanged. The layout of this new edition is broadly similar to the original, but greatly expanded and updated, comprising an outline of the basic theory, aerodynamic design of individual components, and the prediction of off-design performance. Descriptions of engine developments and current markets make this book useful to both students and practising engineers. FEATURES: completely updated to cover current industry requirements and applications coverage of both aircraft and industrial gas turbines includes detailed treatment of off-design performance incorporates in-depth examples throughout based on the authors' extensive teaching and professional experience Gas Turbine Theory is the classic course text on gas turbines, suitable for both undergraduate and

graduate students of mechanical and aeronautical engineering. This new edition will also continue to be a valuable reference for practising gas turbine engineers. THE AUTHORS H.I.H. Saravanamuttoo, Professor Emeritus, Dept of Mechanical and Aerospace Engineering, Carleton University, Ottawa, Canada, has many years experience in the gas turbine industry on both sides of the Atlantic, and is a Past President of the Canadian Aeronautics and Space Institute. G.F.C. Rogers was, until retirement, Professor of Engineering Thermodynamics at the University of Bristol. He is author, with Y.R. Mayhew, of Engineering Thermodynamics Work and Heat Transfer, 4th edition. The late H. Cohen, was formerly University Lecturer and Director of Studies in Engineering at Queen's College, Cambridge.

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