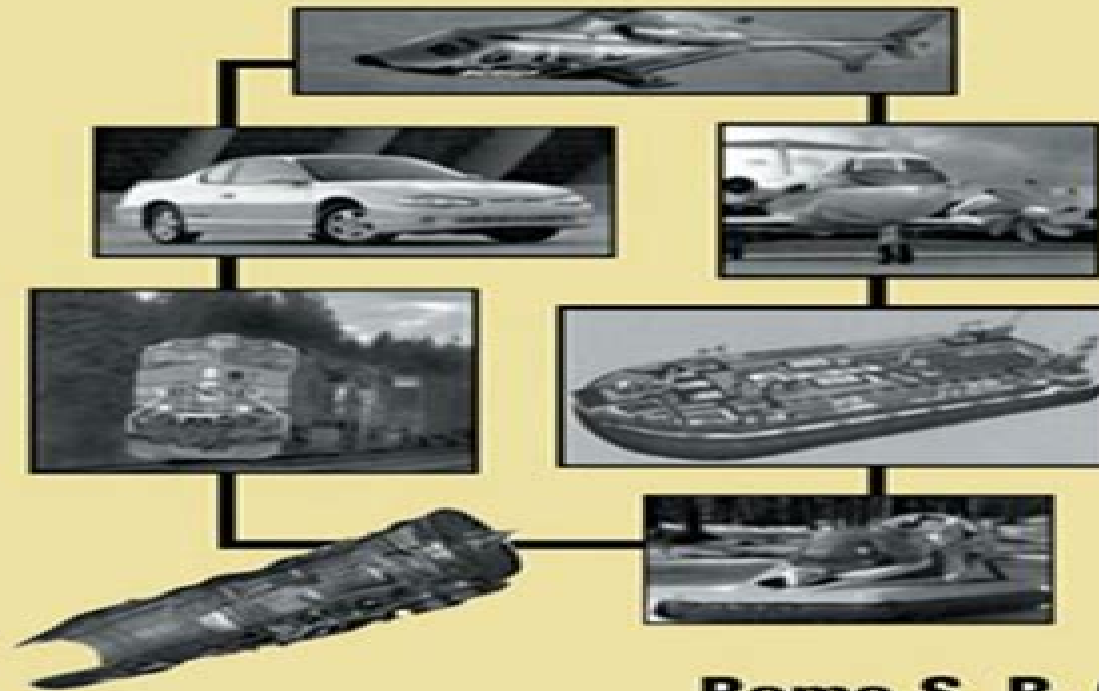


Turbomachinery

Design and Theory



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Aijaz A. Khan

Turbomachinery Design And Theory

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ocean resources this book readdresses the past achievements present developments and future progress of ocean thermal energy from basic sciences to sociology and cultural aspects Fluid Dynamics and Heat Transfer of Turbomachinery

Budugur Lakshminarayana, 1995-12-15 Over the past three decades information in the aerospace and mechanical engineering fields in general and turbomachinery in particular has grown at an exponential rate Fluid Dynamics and Heat Transfer of Turbomachinery is the first book in one complete volume to bring together the modern approaches and advances in the field providing the most up to date unified treatment available on basic principles physical aspects of the aerothermal field analysis performance theory and computation of turbomachinery flow and heat transfer Presenting a unified approach to turbomachinery fluid dynamics and aerothermodynamics the book concentrates on the fluid dynamic aspects of flows and thermodynamic considerations rather than on those related to materials structure or mechanical aspects It covers the latest material and all types of turbomachinery used in modern day aircraft automotive marine spacecraft power and industrial applications and there is an entire chapter devoted to modern approaches on computation of turbomachinery flow An additional chapter on turbine cooling and heat transfer is unique for a turbomachinery book The author has undertaken a systematic approach through more than three hundred illustrations in developing the knowledge base He uses analysis and data correlation in his discussion of most recent developments in this area drawn from over nine hundred references and from research projects carried out by various organizations in the United States and abroad This book is extremely useful for anyone involved in the analysis design and testing of turbomachinery For students it can be used as a two semester course of senior undergraduate or graduate study the first semester dealing with the basic principles and analysis of turbomachinery the second exploring three dimensional viscous flows computation and heat transfer Many sections are quite general and applicable to other areas in fluid dynamics and heat transfer The book can also be used as a self study guide to those who want to acquire this knowledge The ordered meticulous and unified approach of Fluid Dynamics and Heat Transfer of Turbomachinery should make the specialization of turbomachinery in aerospace and mechanical engineering much more accessible to students and professionals alike in universities industry and government Turbomachinery theory performance and analysis made accessible with a new unified approach For the first time in nearly three decades here is a completely up to date and unified approach to turbomachinery fluid dynamics and aerothermodynamics Combining the latest advances methods and approaches in the field Fluid Dynamics and Heat Transfer of Turbomachinery features The most comprehensive and complete coverage of the fluid dynamics and aerothermodynamics of turbomachinery to date A spotlight on the fluid dynamic aspects of flows and the thermodynamic considerations for turbomachinery rather than the structural or material aspects A detailed step by step presentation of the analytical and computational models involved which allows the reader to easily construct a flowchart from which to operate Critical reviews of all the existing analytical and numerical models highlighting the advantages and drawbacks of each Comprehensive coverage of turbine cooling and heat transfer a unique

feature for a book on turbomachinery An appendix of basic computation techniques numerous tables and listings of common terminology abbreviations and nomenclature Broad in scope yet concise and drawing on the author's teaching experience and research projects for government and industry Fluid Dynamics and Heat Transfer of Turbomachinery explains and simplifies an increasingly complex field It is an invaluable resource for undergraduate and graduate students in aerospace and mechanical engineering specializing in turbomachinery for research and design engineers and for all professionals who are or wish to be at the cutting edge of this technology Fundamentals of Fluid Film Lubrication Bernard J.

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