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Attention is given to the jet propulsion principle, the mechanics and thermodynamics of fluid flow, the thermodynamics of aircraft gas turbine engines, axial compressors and turbines, centrifugal compressors, chemical propellant rocket engine operation and performance, turbomachinery for liquid propellant rockets, and electrical rocket propulsion.

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The title of this book is Mechanics and Thermodynamics of Propulsion (2nd Edition) and it was written by Philip Hill, Carl Peterson, Hill, Philip. This particular edition is in a Hardcover format. This books publish date is Sep 27, 1991 and it has a suggested retail price of \$246.65.

In this textbook, the authors show that a few fundamental principles can provide students of mechanical and aeronautical engineering with a deep understanding of all modes of aircraft and spacecraft propulsion. The book also demonstrates how these fundamental principles can lead directly to useful quantitative assessments of performance as well as possibilities for improvement. The second edition provides a wide range of new illustrative material on modern aircraft and rocket engines. The author s have also improved their explanations of pertinent physical phenomena and have introduced preliminary design procedures in this edition.

In this textbook, the authors show that a few fundamental principles can provide students of mechanical and aeronautical engineering with a deep understanding of all modes of aircraft and spacecraft propulsion.

Now in its third edition, Jet Propulsion offers a self-contained introduction to the aerodynamic and thermodynamic design of modern civil and military jet engine design. Through two-engine design projects for a large passenger and a new fighter aircraft, the text explains modern engine design. Individual sections cover aircraft requirements, aerodynamics, principles of gas turbines and jet engines, elementary compressible fluid mechanics, bypass ratio selection, scaling and dimensional analysis, turbine and compressor design and characteristics, design optimization, and off-design performance. The civil aircraft, which formed the core of Part I in the previous editions, has now been in service for several years as the Airbus A380. Attention in the aircraft industry has now shifted to two-engine aircraft with a greater emphasis on reduction of fuel burn, so the model created for Part I in this edition is the new efficient aircraft, a twin aimed at high efficiency.

Aerospace propulsion devices embody some of the most advanced technologies, ranging from materials, fluid control, and heattransfer and combustion. In order to maximize the performance,sophisticated testing and computer simulation tools are developedand used. Aerospace Propulsion comprehensively covers the mechanicsand thermal-fluid aspects of aerospace propulsion, starting fromthe fundamental principles, and covering applications togas-turbine and space propulsion (rocket) systems. It presentsmodern analytical methods using MATLAB and other advanced softwareand includes essential elements of both gas-turbine and rocketpropulsion systems. Gas turbine coverage includes thermodynamicanalysis, turbine components, diffusers, compressors, turbines,nozzles, compressor-turbine matching, combustors and afterburners.Rocket coverage includes chemical rockets, electrical rockets,nuclear and solar sail. Key features: Both gas-turbine and rocket propulsion covered in a single volume Presents modern analytical methods and examples Combines fundamentals and applications, including spaceapplications Accompanied by a website containing MATLAB examples, problemsets and solutions Aerospace Propulsion is a comprehensive textbook forsenior undergraduate and aerospace propulsion courses, andis also an excellent reference for researchers and practicingengineers working in this area.

Readers of this book will be able to: utilize the fundamental principles of fluid mechanics and thermodynamics to analyze aircraft engines, understand the common gas turbine aircraft propulsion systems and be able to determine the applicability of each, perform system studies of aircraft engine systems for specified flight conditions, perform preliminary aerothermal design of turbomachinery components, and conceive, analyze, and optimize competing preliminary designs for conventional and unconventional missions. Early coverage of cycle analysis provides a systems perspective, and offers context for the chapters on turbomachinery and components Broader coverage than found in most other books - including coverage of propellers, nuclear rockets, and space propulsion - allows analysis and design of more types of propulsion systems In depth, quantitative treatments of the components of jet propulsion engines provides the tools for evaluation and component matching for optimal system performance Worked examples and end of chapter exercises provide practice for analysis, preliminary design, and systems integration

Geared toward advanced undergraduates and graduate students, this text develops the concepts of electrical acceleration of gases for propulsion, from primary physical principles to realistic space thruster designs. 1968 edition.

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