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Stratosphere; 3.7 Ideal Ramjet in High Supersonic Cruise in The Stratosphere; 3.8 Ideal Turbofan in Maximum Power Take-Off; 3.9 Ideal Turbofan in High Subsonic Cruise in The Stratosphere; 3.10 Ideal Internal Turbofan in Supersonic Cruise in The Stratosphere; 3.11 Real Engine Operations; 3.12 Nomenclature; 3.13 Exercises; References; Chapter 4 - Combustion Chambers for Air-Breathing Engines
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Sommario/riassunto

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 pers
