



Aircraft Propulsion And Gas Turbine Engines

Author : Ahmed F El-Sayed / **Category :** Technology & Engineering / **Total Pages :** 912 pages

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Summary : Free aircraft propulsion and gas turbine engines pdf download - the escalating use of aircraft in the 21st century demands a thorough understanding of engine propulsion concepts including the performance of aero engines among other critical activities gas turbines play an extensive role in electric power generation and marine propulsion for naval vessels and cargo ships in the most exhaustive volume to date this text examines the foundation of aircraft propulsion aerodynamics interwoven with thermodynamics heat transfer and mechanical design with a finely focused approach the author devotes each chapter to a particular engine type such as ramjet and pulsejet turbojet and turbofan supported by actual case studies he illustrates engine performance under various operating conditions part i discusses the history classifications and performance of air breathing engines beginning with leonardo and continuing on to the emergence of the jet age and beyond this section chronicles inventions up through the 20th century it then moves into a detailed discussion of different engine types including pulsejet ramjet single- and multi-spool turbojet and turbofan in both subsonic and supersonic applications the author discusses vertical take off and landing aircraft and provides a comprehensive examination of hypersonic scramjet and turbo ramjet engines he also analyzes the different types of industrial gas turbines having single-and multi-spool with intercoolers regenerators and reheaters part ii investigates the design of rotating compressors and turbines and non-rotating components intakes combustion chambers and nozzles for all modern jet propulsion and gas turbine engine systems along with their performance every chapter concludes with illustrative examples followed by a problems section for greater clarity some provide a listing of important mathematical relations

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