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Elements Of Gas Turbine Propulsion

The fundamental concepts of the turbine engines design are spelled out. The primary systems and accessories of the gas turbine engine are also discussed. The book provides an excellent foundation in gas turbine engines and jet propulsion theory for aerospace or mechanical engineers.

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The text is divided into four parts: introduction to aircraft propulsion; basic concepts and one-dimensional/gas dynamics; parametric (design point) and performance (off-design) analysis of air breathing propulsion systems; and analysis and design of major gas turbine engine components (fans, compressors, turbines, inlets, nozzles, main burners, and afterburners).

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The text is divided into four parts: introduction to aircraft propulsion; basic concepts and one-dimensional/gas dynamics; parametric (design point) and performance (off-design) analysis of air breathing propulsion systems; and analysis and design of major gas turbine engine components (fans, compressors, turbines, inlets, nozzles, main burners, and afterburners).

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A gas turbine, also called a combustion turbine, is a type of continuous combustion, internal combustion engine. The main

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elements common to all gas turbine engines are: An upstream rotating gas compressor; A combustor; A downstream turbine on the same shaft as the compressor.

Gas turbine - Wikipedia

Elements of Gas Turbine Propulsion (Mcgraw-Hill Series in Aeronautical and Aerospace Engineering) This text provides an introduction to the fundamentals of gas turbine engines and jet propulsion for aerospace or mechanical engineers. The book contains sufficient material for two sequential courses i propulsion (advanced fluid dynamics)...

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Elements of Gas Turbine Propulsion. Design concepts are introduced early (aircraft performance in introductory chapter) and integrated throughout. Written with extensive student input on the design of the book, the book builds upon definitions and gradually develops the thermodynamics, gas dynamics, and gas turbine engine principles.

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The text is divided into four parts introduction to aircraft propulsion; basic concepts and one-dimensional/gas dynamics; analysis and performance of air breathing propulsion systems; and analysis and design of gas turbine engine components.

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