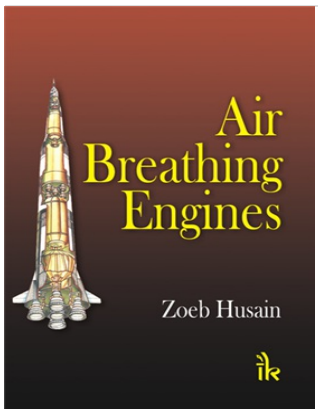
Book Information Sheet



Air Breathing Engines, 1/e

Zoeb Husain

2010 | 272 pp | Paperback | ISBN: 9789380026893 | Price: 395.00

About the Book

The book deals with the theory of Air Breathing Engines or more precisely aircraft engines. These engines take air from the atmosphere, accelerate and produce thrust to the aircraft. Gas turbine forms the basic unit and is gas generator. The components of the gas turbines are given in detail. It is a machine based on which is developed Turbo Prop and Turbo Jet Engines. Rocket has been considered as non-breathing engine. The book will be useful for Aeronautical Engineering students. The book contains worked out examples taken from the data of leading aircraft manufacturers.

The book will be suitable for Mechanical Engineering, Aerospace and Aircraft Engineering courses. The space scientist and students working for space travel can also benefit from this book. The book will offer working knowledge of the operation of the aircraft to engineers in this area.

Salient Features

Salient Features:

- Covers the aspects of thermodynamics, gas dynamics and mechanical design, which lays a strong foundation to understand the concepts.
- Includes a lot of worked examples, well laid out diagrams and pictures, and practice problems.
- Provides a list of symbols to the reader before explaining the subject matter.
- Provides tables like international standard atmosphere, isentropic tables, normal shock, data for some civil gas turbine engines, etc., in the appendix.

Table of Contents

- Basic Thermodynamics
- Fundamentals of Gasdynamics
- Gas Turbine
- Turboprop Engine
- Turbofan Engine
- Turbojet Engine
- Rockets
- Rocket Technology
- Index

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