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*Written by one of the most
successful aerospace authors, this
new book develops aircraft*

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*performance techniques from first
principles and applies then to real
airplanes. It also address a
philosophy of, and techniques for
aircraft design. By developing and
discussing these two subjects in a
single text, the author captures a*

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*degree of synergism not found in
other texts. The book is written in a
conversational style, a trademark of
all of John Anderson's texts, to
enhance the readers'
understanding.*

Offering an up-to-date overview of

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*the field of aerodynamics, this
edition covers many of the key*

*concepts and topics, such as
linearized supersonic flow and
oblique shock and expansion waves.
The 6th edition of Fundamentals of
Aerodynamics is meant to be read.*

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The writing style is intentionally conversational in order to make the book easier to read. The book is designed to talk to the reader; in part to be a self-teaching instrument. Learning objectives have been added to each chapter to

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reflect what is believed to be the most important items to learn from that particular chapter. The 6th edition emphasizes the rich theoretical and physical background of aerodynamics, and marbles in many historical notes to

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*provide a background as to where
the aerodynamic technology comes
from. Also new with this edition,
are Integrated Work Challenges
that pertain to the chapter as a
whole, and give the reader the
opportunity to integrate the material*

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*in that chapter in order to solve a
"bigger picture". Now available*

with the sixth edition of

Fundamentals of Aerodynamics,

Connect. Connect is the only

integrated learning system that

empowers students by continuously

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adapting to deliver precisely what
they need, when they need it, how
they need it, so that your class time
is more engaging and effective.*

*Within Connect, SmartBook is
available with the 6th edition as
well. SmartBook is the first and*

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only adaptive eBook for the Higher Education market. SmartBook facilitates the reading process by using practice questions to identify what content a student knows and doesn't know. As a student reads the text, the material continuously

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*adapts to ensure that he or she is
focused on the content most crucial
to closing specific knowledge gaps
Concise compilation of subsonic
aerodynamic characteristics of
NACA wing sections, plus
description of theory. 350 pages of*

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tables.

*A treatment of low-speed
aerodynamics, covering both theory
and computational techniques, first
published in 2001.*

Boundary-Layer Theory

An Introduction to Theoretical and

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***Computational Aerodynamics
The Grand Designers***

Fundamentals of Aerodynamics

Advances in Technology

Development and Research

*Blending history and
biography with discussion of*

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*engineering concepts, and
the development of flight
through this perspective,
this text includes new
content covering the last
days of the Concorde, the
centennial of the Wright
Brothers' flight, and the*

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*Mariner and Voyager 2
missions.*

*In this textbook, the author
introduces the concept of
unsteady aerodynamics and
its underlying principles.
He provides the readers with
a full review of fundamental*

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*physics of the free and the
forced unsteadiness, the
terminology and basic
equations of aerodynamics
ranging from incompressible
flow to hypersonics. The
book also covers the modern
topics concerning the*

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*developments made during the
last years, especially in
relation to wing flappings
for propulsion. The book is
written for graduate and
senior year undergraduate
students in Aerodynamics,
and it serves as a reference*

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*for experienced researchers.
Each chapter includes ample
examples, questions,
problems and relevant
references.*

*Anderson's book provides the
most accessible approach to
compressible flow for*

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*Mechanical and Aerospace
Engineering students and
professionals. In keeping
with previous versions, the
3rd edition uses numerous
historical vignettes that
show the evolution of the
field. New pedagogical*

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*features--"Roadmaps" showing
the development of a given
topic, and "Design Boxes"
giving examples of design
decisions--will make the 3rd
edition even more practical
and user-friendly than
before. The 3rd edition*

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*strikes a careful balance
between classical methods of
determining compressible
flow, and modern numerical
and computer techniques
(such as CFD) now used
widely in industry &
research. A new Book Website*

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*will contain all problem
solutions for instructors.*

*Demand for high-speed
propulsion has renewed
development of the
supersonic combustion ramjet
engine (Scramjet engine) for
hypersonic flight*

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applications.

Aircraft Design

*Munson, Young and Okiishi's
Fundamentals of Fluid
Mechanics*

*Analysis Methods, Flight
Operations, and Regulations
Finite Element Simulations*

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with ANSYS Workbench 2020
Basic Aerodynamics
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This new edition of the near-legendary textbook by Schlichting and revised by Gersten presents a comprehensive overview of boundary-layer theory and its application to all areas of fluid mechanics, with particular emphasis on the flow past

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bodies (e.g. aircraft aerodynamics). The new edition features an updated reference list and over 100 additional changes throughout the book, reflecting the latest advances on the subject.

Finite Element Simulations with ANSYS Workbench 2020 is a comprehensive and easy to understand workbook. Printed in

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full color, it utilizes rich graphics and step-by-step instructions to guide you through learning how to perform finite element simulations using ANSYS Workbench. Twenty seven real world case studies are used throughout the book. Many of these case studies are industrial or research projects that you build from scratch.

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Prebuilt project files are available for download should you run into any problems. Companion videos, that demonstrate exactly how to perform each tutorial, are also available. Relevant background knowledge is reviewed whenever necessary. To be efficient, the review is conceptual rather than

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mathematical. Key concepts are inserted whenever appropriate and summarized at the end of each chapter. Additional exercises or extension research problems are provided as homework at the end of each chapter. A learning approach emphasizing hands-on experiences is utilized though this entire book. A typical

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chapter consists of six sections. The first two provide two step-by-step examples.

The third section tries to complement the exercises by providing a more systematic view of the chapter subject. The following two sections provide more exercises. The final section provides review problems.

Who this book is for This book is designed

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to be used mainly as a textbook for undergraduate and graduate students. It will work well in: □ a finite element simulation course taken before any theory-intensive courses □ an auxiliary tool used as a tutorial in parallel during a Finite Element Methods course □ an advanced, application oriented, course taken after a

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Finite Element Methods course

Winner of the Summerfield Book Award

Winner of the Aviation-Space Writers

Association Award of Excellence. --Over

30,000 copies sold, consistently the top-

selling AIAA textbook title This highly

regarded textbook presents the entire

process of aircraft conceptual designfrom

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requirements definition to initial sizing,
configuration layout, analysis, sizing, and
trade studies in the same manner seen in
industry aircraft design groups. Interesting
and easy to read, the book has more than
800 pages of design methods, illustrations,
tips, explanations, and equations, and
extensive appendices with key data

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essential to design. It is the required design text at numerous universities around the world, and is a favorite of practicing design engineers.

The Beginner's guide to Computational Fluid Dynamics From aerospace design to applications in civil, mechanical, and chemical engineering, computational fluid

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dynamics (CFD) is as essential as it is complex. The most accessible introduction of its kind, Computational Fluid Dynamics: The Basics With Applications, by experienced aerospace engineer John D. Anderson, Jr., gives you a thorough grounding in: the governing equations of fluid dynamics--their derivation, physical

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meaning, and most relevant forms;
numerical discretization of the governing
equations--including grids with
appropriate transformations and popular
techniques for solving flow problems;
common CFD computer graphic
techniques; applications of CFD to 4
classic fluid dynamics problems--quasi-

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one-dimensional nozzle flows, two-
dimensional supersonic flow,

incompressible couette flow, and
supersonic flow over a flat plate; state-of-
the-art algorithms and applications in
CFD--from the Beam and Warming
Method to Second-Order Upwind
Schemes and beyond.

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Understanding Aerodynamics

Complex Analysis with Applications to

Flows and Fields

Brain & Behavior

Its Engineering and History

Arguing from the Real Physics

*This book provides a comprehensive basics-
to-advanced course in an aero-thermal*

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*science vital to the design of engines for
either type of craft. The text classifies*

*engines powering aircraft and single/multi-
stage rockets, and derives performance*

parameters for both from basic

aerodynamics and thermodynamics laws.

Each type of engine is analyzed for

optimum performance goals, and mission-

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appropriate engines selection is explained.

Fundamentals of Aircraft and Rocket

Propulsion provides information about and analyses of: thermodynamic cycles of shaft engines (piston, turboprop, turboshaft and propfan); jet engines (pulsejet, pulse detonation engine, ramjet, scramjet, turbojet and turbofan); chemical and non-chemical

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rocket engines; conceptual design of modular rocket engines (combustor, nozzle and turbopumps); and conceptual design of different modules of aero-engines in their design and off-design state. Aimed at graduate and final-year undergraduate students, this textbook provides a thorough grounding in the history and classification

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of both aircraft and rocket engines, important design features of all the engines detailed, and particular consideration of special aircraft such as unmanned aerial and short/vertical takeoff and landing aircraft. End-of-chapter exercises make this a valuable student resource, and the provision of a downloadable solutions

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*manual will be of further benefit for course
instructors.*
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*Widely known and used throughout the
astrodynamics and aerospace engineering
communities, this teaching text was
developed at the U.S. Air Force Academy.
Completely revised and updated 2013
edition.*

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Modern Compressible Flow, Second Edition, presents the fundamentals of classical compressible flow along with the latest coverage of modern compressible flow dynamics and high-temperature flows. The second edition maintains an engaging writing style and offers philosophical and historical perspectives on the topic. It also

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*continues to offer a variety of problems-
providing readers with a practical*

*understanding. The second edition includes
the latest developments in the field of
modern compressible flow.*

*In the rapidly advancing field of flight
aerodynamics, it is especially important for
students to master the fundamentals. This*

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text, written by renowned experts, clearly presents the basic concepts of underlying aerodynamic prediction methodology. These concepts are closely linked to physical principles so that they are more readily retained and their limits of applicability are fully appreciated. Ultimately, this will provide students with the necessary tools to

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*confidently approach and solve practical
flight vehicle design problems of current*

and future interest. This book is designed

for use in courses on aerodynamics at an

advanced undergraduate or graduate level.

A comprehensive set of exercise problems is

included at the end of each chapter.

An Introduction

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An Introduction to Behavioral Neuroscience
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With Historical Perspective

Aircraft Structures

Computational Fluid

Dynamics: An

Introduction grew out of

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a von Karman Institute

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(VKI) Lecture Series by

the same title first

presented in 1985 and

repeated with

modifications every year

since that time. The

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objective, then and now,
was to present the

subject of computational
fluid dynamics (CFD) to
an audience unfamiliar
with all but the most
basic numerical

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techniques and to do so
in such a way that the
practical application of
CFD would become clear
to everyone. A second
edition appeared in 1995
with updates to all the

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chapters and when that
printing came to an end,
the publisher requested
that the editor and
authors consider the
preparation of a third
edition. Happily, the

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authors received the
request with enthusiasm.

The third edition has
the goal of presenting
additional updates and
clarifications while
preserving the

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introductory nature of
the material. The book
is divided into three
parts. John Anderson
lays out the subject in
Part I by first
describing the governing

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equations of fluid
dynamics, concentrating
on their mathematical
properties which contain
the keys to the choice
of the numerical
approach. Methods of

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discretizing the
equations are discussed
and transformation
techniques and grids are
presented. Two examples
of numerical methods
close out this part of

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the book: source and
vortex panel methods and
the explicit method.

Part II is devoted to
four self-contained
chapters on more
advanced material. Roger

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Grundmann treats the
boundary layer equations
and methods of solution.

The simplest, most
intuitive book on the
toughest lessons of
flight--addresses the

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science of flying in
terms, explanations, and
illustrations that make
sense to those who most
need to understand:
those who fly. Debunks
long-rooted

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misconceptions and
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offers a clear, minimal-
math presentation that
starts with how
airplanes fly and goes
on to clarify a diverse
range of topics, such as

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design, propulsion,
performance, high-speed
flight, and flight
testing. Not-to-be
missed insights for
pilots, instructors,
flight students,

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aeronautical engineering
students, and flight
enthusiasts.

Ignite your students'
excitement about
behavioral neuroscience
with Brain & Behavior:

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An Introduction to
Behavioral Neuroscience,
Fifth Edition by best-
selling author Bob
Garrett and new co-
author Gerald Hough.
Garrett and Hough make

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the field accessible by
inviting students to
explore key theories and
scientific discoveries
using detailed
illustrations and
immersive examples as

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their guide. Spotlights
on case studies, current
events, and research
findings help students
make connections between
the material and their
own lives. A study

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guide, revised artwork,
new animations, and an
interactive eBook

stimulate deep learning
and critical thinking. A

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Learning Package Contact

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follow narrations. Watch

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students a robust online

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depth coverage of the
latest research and
development activities
concerning innovative
wind energy technologies
intended to replace
fossil fuels on an

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economical basis. A
characteristic feature
of the various
conversion concepts
discussed is the use of
tethered flying devices
to substantially reduce

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the material consumption
per installed unit and

to access wind energy at
higher altitudes, where
the wind is more
consistent. The

introductory chapter

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describes the emergence
and economic dimension
of airborne wind energy.

Focusing on

"Fundamentals, Modeling
& Simulation", Part I

includes six

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contributions that
describe quasi-steady as
well as dynamic models
and simulations of
airborne wind energy
systems or individual
components. Shifting the

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spotlight to "Control,
Optimization & Flight

State Measurement", Part

II combines one chapter

on measurement

techniques with five

chapters on control of

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kite and ground
stations, and two
chapters on
optimization. Part III
on "Concept Design &
Analysis" includes three
chapters that present

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and analyze novel
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harvesting concepts as
well as two chapters on
system component design.
Part IV, which centers
on "Implemented
Concepts", presents five

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chapters on established
system concepts and one
chapter about a
subsystem for automatic
launching and landing of
kites. In closing, Part
V focuses with four

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chapters on "Technology
Deployment" related to

market and financing
strategies, as well as

on regulation and the

environment. The book

builds on the success of

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the first volume
"Airborne Wind Energy"
(Springer, 2013), and
offers a self-contained
reference guide for
researchers, scientists,
professionals and

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students. The respective
chapters were

contributed by a broad
variety of authors:
academics, practicing
engineers and inventors,
all of whom are experts

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in their respective
fields.
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Performance of the Jet
Transport Airplane
Computational Fluid
Dynamics
Aircraft Performance &

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Design

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Introduction to

Aerospace Engineering

with a Flight Test

Perspective

Low-Speed Aerodynamics

Authoritative, highly readable

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history of aerodynamics and the
major theorists and their

contributions.

Complex Analysis with
Applications to Flows and Fields
presents the theory of functions of a
complex variable, from the complex

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plane to the calculus of residues to
power series to conformal mapping.

The book explores numerous
physical and engineering
applications concerning potential
flows, the gravity field, electro- and
magnetostatics, steady he

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NOTE: The Binder-ready, Loose-leaf version of this text contains the same content as the Bound, Paperback version. Fundamentals of Fluid Mechanics, 8th Edition offers comprehensive topical coverage, with varied examples and problems,

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application of visual component of
fluid mechanics, and strong focus on
effective learning. The text enables
the gradual development of
confidence in problem solving. The
authors have designed their
presentation to enable the gradual

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development of reader confidence in
problem solving. Each important

concept is introduced in easy-to-
understand terms before more
complicated examples are discussed.

Continuing this book's tradition of
extensive real-world applications,

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the 8th edition includes more Fluid
in the News case study boxes in
each chapter, new problem types, an
increased number of real-world
photos, and additional videos to
augment the text material and help
generate student interest in the topic.

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Example problems have been updated and numerous new photographs, figures, and graphs have been included. In addition, there are more videos designed to aid and enhance comprehension, support visualization skill building

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and engage students more deeply
with the material and concepts.

Performance of the Jet Transport
Airplane: Analysis Methods, Flight
Operations, and Regulations
presents a detailed and
comprehensive treatment of

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performance analysis techniques for
jet transport airplanes. Uniquely, the
book describes key operational and
regulatory procedures and
constraints that directly impact the
performance of commercial
airliners. Topics include: rigid body

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dynamics; aerodynamic

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fundamentals; atmospheric models

(including standard and non-

standard atmospheres); height scales

and altimetry; distance and speed

measurement; lift and drag and

associated mathematical models; jet

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engine performance (including
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