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challenge, but a
challenge well worth the
effort for those wanting
to better understand
aircraft flight"--

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aerospace engineering.
Introduction to Flight

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Preview Boxes, new to this edition, provide students with a snapshot of what they are to learn in each chapter.

The book introduces the fundamentals of fluid-mechanics, momentum theories, vortex theories

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of vortex methods
necessary for the study
of rotors aerodynamics
and wind-turbines
aerodynamics in
particular. Rotor
theories are presented in
a great level of details at
the beginning of the
book. These theories
include: the blade
element theory, the
Kutta-Joukowski theory,
the momentum theory

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and the blade element momentum method. A part of the book is dedicated to the description and implementation of vortex methods. The remaining of the book focuses on the study of wind turbine aerodynamics using vortex-theory analyses or vortex-methods.

Examples of vortex-

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theory applications are:
optimal rotor design, tip-
loss corrections, yaw-
models and dynamic
inflow models.

Historical derivations
and recent extensions of
the models are
presented. The
cylindrical vortex model
is another example of a
simple analytical vortex
model presented in this
book. This model leads

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of the development of different BEM models and it is also used to provide the analytical velocity field upstream of a turbine or a wind farm under aligned or yawed conditions.

Different applications of numerical vortex methods are presented. Numerical methods are used for instance to investigate the influence

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of a wind turbine on the
incoming turbulence.

Sheared inflows and
aero-elastic simulations
are investigated using
vortex methods for the
first time. Many

analytical flows are
derived in details:

vortex rings, vortex
cylinders, Hill's vortex,
vortex blobs etc. They
are used throughout the
book to devise simple

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of rotor models or to
validate the
implementation of
numerical methods.

Several Matlab
programs are provided
to ease some of the most
complex
implementations.

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