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Aircraft Performance Theory And Practice For Pilots

This book provides
a general
introduction into
aviation
operations,

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covering all the relevant elements of this field and the interrelations between them.

Numerous books have been written about aviation, but most are written by and for specialists, and assume a profound

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understanding of the fundamentals.

This textbook provides the basics for understanding these fundamentals. It explains how the commercial aviation sector is structured and

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how technological, economic and political forces define its development and the prosperity of its players. Aviation operations have become an important field of expertise. Airlines, airports and

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aviation suppliers,
the players in
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aircraft can be
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by connecting
airports with the
aim of adding
value to society.
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all relevant

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aspects of aviation
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challenges, like

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constraints and

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textbook delivers a

fundamental

understanding of

the commercial

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aviation sector at a level ideal for first-year university students and can be a tool for lecturers in developing an aviation operations curriculum. It may also be of interest to people already employed within

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aviation, often
specialists,
seeking an
accurate overview
of all relevant
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the Jet Transport
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Regulations
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atmospheric
models (including
standard and non-
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height scales and
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and speed
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and drag and
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models; jet engine
performance

(including thrust
and specific fuel
consumption

models); takeoff
and landing

performance (with
airfield and

operational
constraints);

takeoff climb and

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obstacle
clearance; level,
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(including
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(including solutions
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operations and limitations (e.g. climb-speed schedules, cruise ceiling, ETOPS); cost considerations (e.g. cost index, energy cost, fuel tankering); weight, balance and trim; flight envelopes

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and limitations (including stall and buffet onset speeds, $V-n$ diagrams); environmental considerations (viz. noise and emissions); aircraft systems and airplane performance (e.g.

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cabin
pressurization,
de-/anti icing, and
fuel); and performa
nce-related
regulatory
requirements of
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(European

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Aviation Safety Agency). Key

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and EASA

regulations that
impact airplane
performance

Presents

equations and
examples in both

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International) and
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researchers
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studies, and flight
operations
engineers.

Vice Adm. William

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H. McRaven helped to devise the strategy for how to bring down Osama bin Laden, and commanded the courageous U.S. military unit that carried it out on May 1, 2011, ending one of the greatest manhunts

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in history. In Spec Ops, a well-organized and deeply researched study, McRaven analyzes eight classic special operations. Six are from WWII: the German commando raid on the Belgian fort

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Eben Emael
(1940); the Italian
torpedo attack on
the Alexandria
harbor (1941); the
British commando
raid on Nazaire,
France (1942); the
German glider
rescue of Benito
Mussolini (1943);
the British midget-

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submarine attack on the Tirpitz (1943); and the U.S. Ranger rescue mission at the Cabanatuan POW camp in the Philippines (1945). The two post-WWII examples are the U.S. Army raid on the Son Tay POW

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camp in North
Vietnam (1970)

and the Israeli

rescue of the

skyjacked

hostages in

Entebbe, Uganda

(1976).

McRaven—who

commands a U.S.

Navy SEAL

team—pinpoints six

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essential principles
of “spec ops”

success: simplicity,
security, repetition,
surprise, speed
and purpose. For
each of the case
studies, he
provides political
and military
context, a
meticulous

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reconstruction of the mission itself and an analysis of the operation in relation to his six principles.

McRaven deems the Son Tay raid “the best modern example of a successful spec op [which] should be

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considered
textbook material
for future
missions.” His own
book is an
instructive
textbook that will
be closely studied
by students of the
military arts. Maps,
photos.

As part of the

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national effort to improve aviation safety, the Federal Aviation Administration (FAA) chartered the National Research Council to examine and recommend improvements in the aircraft

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certification
process currently
used by the FAA,
manufacturers,
and operators.

Flight Stress

Performance of
the Jet Transport
Airplane

Fleet Planning for
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*This book
discusses aircraft
flight performance,
focusing on
commercial aircraft
but also
considering
examples of high-*

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software validation
at several levels.*

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topics such as*

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aerodynamics and
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propulsion
systems (gas
turbine engines
and propellers),*

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aircraft trim, flight envelopes, mission analysis, trajectory optimisation, aircraft noise, noise trajectories and analysis of environmental performance. A unique feature of this book is the discussion and

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*analysis of the
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the narrative. It thus

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Following this,
deconstruction of
the maneuver
being analyzed to
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flight test
packages to
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and expected

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airplane behavior) is conducted. Then, flight test considerations are discussed including required instrumentation, flight test risk and risk mitigation, data

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scatter, data reduction and presentation of the performance information to the flight crew.

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faced with when
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performance
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provides a
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application of aircraft modeling based on experimental data also known as aircraft system identification.

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the basic
principles before
considering
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theory and
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propulsive equations and data. In general, topics are separated into horizontal and vertical plane approaches. Following an introduction and overview, basic energy concepts

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