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Engineering

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Mechanics An
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Statics and Dynamics

AN

INTRODUCTION

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introduces students to

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field of mechanical

engineering, giving

an appreciation for

how engineers design

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the hardware that builds and improves societies all around the world. Intended for students in their first or second year of a typical college or university program in mechanical engineering or a closely related field, the text balances the treatments of

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clear presentation of the principles of engineering mechanics: each concept is presented as it relates to the fundamental principles on which all mechanics is based. The text contains a large number of actual engineering problems

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to develop and encourage the understanding of important concepts. These examples and problems are presented in both SI and Imperial units and the notation is primarily vector with a limited amount of scalar. This edition combines coverage of

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both statics and dynamics but is also available in two separate volumes.

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Introduction to Fluid

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Mechanics
Engineering
Mechanics

Equilibrium, Motion,
and Deformation

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intended for
students of
common
engineering taking
a fundamental
course in***

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mechanics. The material in this book is tailored in a concise manner for teaching the major contents of Dynamics in one semester.

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***motion of particles
and rigid bodies.***

***Throughout the
book, vectors are
used as a basic
mathematical tool.***

***The authors
believe that basic
training in vector
analysis will be of
great help in
giving students an
in-depth
understanding of***

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the concepts and principles in Planar

Dynamics. After

the study,

students will be

equipped with the

basic knowledge

necessary for

further study in

the broad field of

engineering.

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yet concise

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**coverage of
robotics that will
appeal to
engineers. Robotic
applications are
drawn from a wide
variety of fields.
Emphasis is placed
on design along
with analysis and
modeling.
Kinematics and
dynamics are
covered**

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**extensively in an
accessible style.**

***Vision systems are
discussed in detail,
which is a cutting-
edge area in
robotics. Engineers
will also find a
running design
project that
reinforces the
concepts by having
them apply what
they've learned.***

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***thermodynamics
topics, but
structurally the
book introduces
the thermal-fluid
sciences. Chapter
2 includes
essentially all
material related to
thermodynamic
properties clearly
showing the
hierarchy of
thermodynamic***

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state relationships.

Element

conservation is

considered in

Chapter 3 as a way

of expressing

conservation of

mass. Constant-

pressure and

volume combustion

are considered in

Chapter 5 - Energy

Conservation.

Chemical and

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phase equilibria are treated as a consequence of the 2nd law in Chapter 6. 2nd law topics are introduced hierarchically in one chapter, important structure for a beginner. The book is designed for the instructor to select

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**topics and combine
them with material
from other
chapters
seamlessly.**

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devices include:**

**learning
objectives, chapter
overviews and
summaries,
historical
perspectives, and
numerous**

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and definitive

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dynamics of
solids and
structures,
including
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materials,
structural
mechanics,
elasticity,
rigid-body

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vibrations,
structural
dynamics, and
structural
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integrates the
development of
fundamental
theories,
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unique merger
of technical

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allows instant
solution of a
variety of
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problems, and
in-depth
exploration of
the physics of

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deformation,
stress and
motion by
analysis,
simulation,
graphics, and
animation.

This book is
ideal for both
professionals
and students
dealing with

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as well as
naval
architecture,
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robotics, and
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tool in
research and
development.
For
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students at
both

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allow
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engineers to
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wider range of
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using closed-
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to the basic
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mechanics.
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dimensions;
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relative
motion; the
vector-based
solution of
the classical
two-body
problem;
derivation of
Kepler's
equations;

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and orbital
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relative
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the attitude
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vehicle;
satellite
attitude
dynamics; and
the characteri-
stics and
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multi-stage
launch
vehicles. Each
chapter begins
with an

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outline of key
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concepts and

concludes with

problems that

are based on

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covered. This

text is

written for

undergraduates

who are

studying

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orbital
mechanics for
the first time
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regulating the

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Solar

radiation,

which is the

primary source

of energy for

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weather systems, is absorbed by ozone when it passes through the stratosphere, thereby modulating the solar-forcing energy reaching into

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such as water
vapor, carbon

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stratosphere
and
troposphere.
The

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stratosphere
is the
transition
region which
interacts with
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tems in the
lower
atmosphere and
the richly
ionized upper
atmosphere.

Therefore,
this part of
the atmosphere
provides a
long list of
challenging
scientific
problems of
basic nature
involving its
thermal
structure,

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energetics,
composition,
dynamics,
chemistry, and
modeling. The
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chemically

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and protects

life on the

Earth. On the

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the

troposphere

has high

concentrations

of water

vapor, is low

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decreases with

altitude. The

convective

activity is

more in the

troposphere

than in the

stratosphere.

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Dynamics
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and practice of
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analysis of these systems, with an introduction to the analysis and

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to modeling

dynamic systems,
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systems and
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systems, fluid
systems and
thermal systems,

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time domain
analyses of
dynamic systems,
frequency domain
analyses of
dynamic systems,
time domain
analyses of control
systems, and
frequency domain
analyses and
design of control

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systems. For
mechanical and
aerospace
engineers.

Although this
classic introduction
to space-flight
engineering was
first published not
long after Sputnik
was launched, the
fundamental

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principles it elucidates are as varied today as then. The problems to which these principles are applied have changed, and the widespread use of computers has accelerated problem-solving

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techniques, but this

book is still a

valuable basic text

for advanced

undergraduate and

graduate students

of aerospace

engineering. The

first two chapters

cover vector

algebra and

kinematics,

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including angular
velocity vector,
tangential and
normal

components, and
the general case of
space motion. The
third chapter deals
with the

transformation of
coordinates, with
sections of Euler's

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angles, and the transformation of angular velocities.

A variety of interesting problems regarding the motion of satellites and other space vehicles is discussed in Chapter 4, which includes the two-

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body problem, orbital change due to impulsive thrust, long-range ballistic trajectories, and the effect of the Earth's oblateness. The fifth and sixth chapters describe gyro dynamics and the dynamics of gyroscopic

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instruments, covering such topics as the displacement of a rigid body, precession and nutation of the Earth's polar axis, oscillation of the gyrocompass, and inertial navigation. Chapter 7 is an

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examination of
space vehicle
motion, with
analyses of general
equations in body
conditions and their
transformation to
inertial coordinates,
attitude drift of
space vehicles,
and variable mass.
The eighth chapter

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discusses
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optimization of the

performance of

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Chapter 9 deals

with generalized

theories of

mechanics,

including

holonomic and non-

holonomic

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systems,
Lagrange's
Equation for
impulsive forces,
and missile
dynamics analysis.
Throughout this
clear,
comprehensive
text, practice
problems (with
answers to many)

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aid the student in
mastering analytic

techniques, and

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significantly

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followed, in Part IV,
by an introduction
and description of
the main beam
parameters and
including a new
chapter on beam
emittance and
lattice design. Part
V is devoted to the
treatment of
perturbations in

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beam dynamics.
Part VI then
discusses the
details of charged
particle
acceleration. Parts
VII and VIII
introduce the more
advanced topics of
coupled beam
dynamics and
describe very

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intense beams – a number of additional beam instabilities are introduced and reviewed in this new edition. Part IX is an exhaustive treatment of radiation from accelerated charges and

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introduces

important sources

of coherent

radiation such as

synchrotrons and

free-electron

lasers. The

appendices at the

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gather useful

mathematical and

physical formulae,

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units. Solutions to

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chapter problems
are given. This
textbook is suitable
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senior
undergraduate
level.

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Second Edition

Dougal Drysdale

University of

Edinburgh, UK Fire

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identified in the

original edition as

'a relatively new

discipline', has

since grown

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significantly in stature, as Fire Safety Engineers around the world begin to apply their skills to complex issues that defy solution by the old 'prescriptive' approach to fire safety. This second edition has the

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same structure as the first highly successful text, but has been updated with the latest research results.

Fire processes are discussed and quantified in terms of the mechanisms of heat transfer and fluid flow. Problems

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addressed include:

* The conditions
necessary for
ignition and steady
burning of
combustible
materials to occur *

How large a fire
has to become
before fire
detectors and
sprinkler heads will

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operate * The
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circumstances that
can lead to

flashover in a

compartment This

book is unique in

that it identifies fire

science and fire

dynamics and

provides the

scientific

background

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necessary for the development of fire safety engineering as a professional discipline. It is essential reading for all those involved in this wide ranging field, from Fire Prevention Officers to Consulting

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Engineers, whether involved in problems of fire risk assessment, fire safety design, or fire investigation.

It will also be of considerable interest and value to research scientists working in building design,

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chemistry.

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MATLAB
Toolboxes

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students are
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principles of marketing, focusing on the 4Ps as the starting point for advanced marketing concepts such as research and target markets. DECA activities are included. There can be few books on mathematical mechanics as famous

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provides basic tools
for quantitative
analysis of the
motions of satellites
and other vehicles in
space.

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incompressible flow
now fully revised,
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expanded
Incompressible Flow,

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the most

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coverage of the
subject in an
exceptionally clear,
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equations Classic-
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the Psi-Omega
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flow, and the laminar
boundary layer
program, all revised
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discussion of the
global vorticity

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boundary restriction A
revised vorticity

dynamics chapter with
new examples,

including the ring line
vortex and the

Fraenkel-Norbury
vortex solutions A

discussion of the
different behaviors

that occur in subsonic
and supersonic steady

flows Additional

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emphasis on

composite asymptotic
expansions

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ideal coursebook for

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dynamics offered in

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aerospace, and

chemical engineering

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Biomechanics
An Introduction to
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