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**Fluid
Mechanics
Fundamenta
ls And App
lications
2nd
Edition
Solutions
Manual**

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Retaining the features that made previous editions perennial favorites, Fundamental Mechanics of Fluids, Third Edition illustrates basic equations and strategies used to analyze fluid dynamics,

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*mechanisms, and
behavior, and offers
solutions to fluid
flow dilemmas
encountered in
common
engineering
applications. The
new edition contains
completely reworked
line drawings,
revised problems,*

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*and extended end-of-
chapter questions
for clarification and
expansion of key
concepts. Includes
appendices
summarizing
vectors, tensors,
complex variables,
and governing
equations in
common coordinate*

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systems

*Comprehensive in
scope and breadth,
the Third Edition of
Fundamental*

*Mechanics of Fluids
discusses:*

*Continuity, mass,
momentum, and
energy One-, two-,
and three-
dimensional flows*

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*Low Reynolds
number solutions
Buoyancy-driven
flows Boundary*

*layer theory Flow
measurement*

Surface waves

Shock waves

*Covers the basic
principles and
equations of fluid
mechanics in the*

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*context of numerous
and diverse real-
world engineering
examples. This title
helps students
develop an intuitive
understanding of
fluid mechanics by
emphasizing the
physics, using
figures, numerous
photographs and*

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reinforce the
physics.*

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persons, places, and
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Fluid Mechanics
and Transport
Phenomena
Introduction to
Fluid Mechanics
Mechanics of Fluids***

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SI Version
And Applications
Fundamentals and
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DVD by Yunus A.
Cengel, ISBN

This book presents the foundations of fluid mechanics and transport phenomena in a concise way. It is suitable as an introduction to the subject as it contains

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many examples,
proposed problems
and a chapter for self-
evaluation.

Original edition:

Munson, Young, and
Okiishi in 1990.

This book explores
the dynamics of
planetary and stellar
fluid layers, including
atmospheres, oceans,
iron cores, and
convective and

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radiative zones in stars, describing the different theoretical, computational and experimental methods used to study these problems in fluid mechanics, including the advantages and limitations of each method for different problems. This scientific domain is by nature

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Sudhakar Murthy

interdisciplinary and multi-method, but while much effort has been devoted to solving open questions within the various fields of mechanics, applied mathematics, physics, earth sciences and astrophysics, and while much progress has been made within each domain using

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theoretical, numerical
and experimental

approaches, cross-
fertilizations have

remained marginal.

Going beyond the
state of the art, the
book provides readers
with a global
introduction and an up-
to-date overview of
relevant studies, fully
addressing the wide
range of disciplines

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and methods
involved. The content
builds on the CISM
course “ Fluid
mechanics of planets
and stars ” , held in
April 2018, which was
part of the research
project FLUDYCO,
supported by the
European Research
Council (ERC) under
the European Union's
Horizon 2020

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research and
innovation program.
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Essentials of Fluid
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Loose Leaf for Fluid
Mechanics

Fundamentals and
Applications

Lecture Notes of the
Les Houches Summer

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School: Volume 98,
July 2012

**This handbook
covers
computational fluid
dynamics from
fundamentals to
applications. This
text provides a well
documented critical
survey of numerical
methods for fluid**

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Fundamentals

**mechanics, and
gives a state-of-the-
art description of
computational fluid
mechanics,
considering
numerical analysis,
computer
technology, and
visualization tools.**

**The chapters in this
book are invaluable**

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tools for reaching a
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deeper
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understanding of
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the problems
associated with the
calculation of fluid
motion in various
situations: inviscid
and viscous,
incompressible and
compressible,
steady and

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**unsteady, laminar
and turbulent
flows, as well as
simple and complex
geometries. Each
chapter includes a
related
bibliography**

**Covers
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applications**

Provides a deeper

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motion**

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even figures out
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grades you want.**

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Engineering offers
practical strategies
to construct, test,
modify, and
renovate industrial
structures and**

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**processes to
minimize and
inhibit contaminant
formation,
distribution, and
accumulation. The
authors analyze the
chemical and
physical
phenomena
affecting
contaminant**

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**generation to
optimize system
function and
design, improve
human health and
safety, and reduce
odors, fumes,
particles, gases, and
toxins within a
variety of interior
environments. The
book includes**

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**applications in
Microsoft Excel®,
Mathcad®, and
Fluent® for**

**analysis of
contaminant
concentration in
various flow fields
and air pollution
control devices.**

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Modern Fluid
Dynamics, Second
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**Fox and
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Introduction to
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Heat Transfer**

This book covers
topics on engineering

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science, technology
and applications of
the classification of
particles in liquids
suspensions in
hydrocyclones. It is
divided into 12
chapters starting with
the introduction of
the hydrocyclone to
the mining industry
and its several
applications of
classification,

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followed by the
fundamentals of
classification. A
special chapter on the
fundamentals of
sedimentation as the
mechanism of the
hydrocyclone
classification is given.
The authors also
cover the
fundamentals
hydrodynamics of
solid–fluid

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interaction with
application to the
fluids and
suspensions flow of in
circular pipelines and
discusses the flow
pattern in
hydrocyclones from a
fluid dynamics point
of view. The physical
design, the empirical,
phenomenological
and numerical
hydrocyclone models

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are presented. The two last chapters deal with the applications of hydrocyclones system design and instrumentation study cases of application in hydrocyclones to the mining industry.

Several parts of this book are the result of the work of their research and professional groups

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from the university
and industry.
Cengel and Cimbala's
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Applications,
communicates
directly with
tomorrow's engineers
in a simple yet
precise manner. The
text covers the basic
principles and
equations of fluid

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mechanics in the context of numerous and diverse real-world engineering examples. The text helps students develop an intuitive understanding of fluid mechanics by emphasizing the physics, using figures, numerous photographs and visual aids to

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reinforce the physics.
The highly visual
approach enhances
the learning of Fluid
mechanics by
students. This text
distinguishes itself
from others by the
way the material is
presented - in a
progressive order
from simple to more
difficult, building
each chapter upon

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foundations laid down in previous chapters. In this way, even the traditionally challenging aspects of fluid mechanics can be learned effectively. McGraw-Hill's Connect, is also available as an optional, add on item. Connect is the only integrated learning system that

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empowers students by continuously adapting to deliver precisely what they need, when they need it, how they need it, so that class time is more effective.

Connect allows the professor to assign homework, quizzes, and tests easily and automatically grades and records the

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scores of the
student's work.

Problems are
randomized to
prevent sharing of
answers and may also
have a "multi-step
solution" which helps
move the students'
learning along if they
experience difficulty.

Fluid Mechanics:
Fundamentals and
Applications is

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written for the first
fluid mechanics
course for
undergraduate
engineering students,
with sufficient
material for a two-
course sequence. This
Third Edition in SI
Units has the same
objectives and goals
as previous editions:
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directly with

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tomorrow's
And Applications
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engineers in a simple
yet precise manner
Covers the basic
principles and
equations of fluid
mechanics in the
context of numerous
and diverse real-
world engineering
examples and
applications Helps
students develop an
intuitive

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understanding of
fluid mechanics by
emphasizing the
physical
underpinning of
processes and by
utilizing numerous
informative figures,
photographs, and
other visual aids to
reinforce the basic
concepts Encourages
creative thinking,
interest and

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enthusiasm for fluid mechanics New to this edition All figures and photographs are enhanced by a full color treatment. New photographs for conveying practical real-life applications of materials have been added throughout the book. New Application Spotlights have been

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added to the end of selected chapters to introduce industrial applications and exciting research projects being conducted by leaders in the field about material presented in the chapter. New sections on Biofluids have been added to Chapters 8 and 9.

Addition of

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to help students
prepare for
Professional
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Fluid Mechanics with
Student Resources
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Introduction to Fluid
Mechanics and Fluid

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Outlines and
Highlights for Fluid
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Basics of Fluid
Mechanics

Fluid mechanics, the study of how fluids behave and interact under various forces and in various applied situations-whether in the liquid or gaseous

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state or both-is introduced and comprehensively covered in this widely adopted text. Revised and updated by Dr. David Dowling, Fluid Mechanics, Fifth Edition is suitable for both a first or second course in fluid mechanics at the graduate or advanced

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and can view dozens
of other new
interactive
demonstrations and
animations, thereby
enhancing their fluid*

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and to consolidate
portions that belong
together. Changes
made to the book's
pedagogy
accommodate the
needs of students who
have completed*

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of fluid mechanics.*

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chapter problems

illustrate fluid

mechanical principles

and draw on

phenomena that can

be observed in

everyday life.

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This book is intended for students and engineers who design and develop liquid-propellant rocket engines, offering them a guide to the theory and practice alike. It first presents the fundamental concepts (the generation of thrust,

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*the gas flow through
the combustion
chamber and the
nozzle, the liquid
propellants used, and
the combustion
process) and then
qualitatively and
quantitatively
describes the principal
components involved
(the combustion
chamber, nozzle, feed*

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systems, control systems, valves, propellant tanks, and interconnecting elements). The book includes extensive data on existing engines, typical values for design parameters, and worked-out examples of how the concepts discussed can be

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readers integrate them
in their own work.*

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references (including
books, articles, and
items from the “gray
literature”) are
provided at the end of
each chapter, together
with information on
valuable resources*

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*that can be found
online. Given its
scope, the book will be
of particular interest
to undergraduate and
graduate students of
aerospace
engineering.*

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Cengel, Yunus A.
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*Applications
Fundamental
Concepts of Liquid-
Propellant Rocket
Engines*

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Engineers and
Scientists is
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than any other
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developed by the
authors over the
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differential
equations to
engineering
students.

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students
understand the

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physical concepts,
basic principles,
and analysis
methods of fluid
mechanics. This
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a balanced,
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approach to
mastering critical
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McDonald
solution
methodology. In-
depth yet
accessible
chapters present
governing
equations, clearly
state
assumptions, and
relate

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mathematical results to corresponding physical behavior. Emphasis is placed on the use of control volumes to support a practical, theoretically-inclusive problem-solving approach to the

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subject. Each comprehensive chapter includes numerous, easy-to-follow examples that illustrate good solution technique and explain challenging points. A broad range of carefully

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selected topics describe how to apply the governing equations to various problems, and explain physical concepts to enable students to model real-world fluid flow situations. Topics

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include flow measurement, dimensional analysis and similitude, flow in pipes, ducts, and open channels, fluid machinery, and more. To enhance student learning, the book incorporates

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numerous
pedagogical
features including
chapter
summaries and
learning
objectives, end-of-
chapter problems,
useful equations,
and design and
open-ended
problems that

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encourage students to apply fluid mechanics principles to the design of devices and systems.

Many of the distinctive and useful phenomena of soft matter come from its interaction with

interfaces.

Examples are the peeling of a strip of adhesive tape, the coating of a surface, the curling of a fiber via capillary forces, or the collapse of a porous sponge.

These interfacial

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phenomena are distinct from the intrinsic behavior of a soft material like a gel or a microemulsion.

Yet many forms of interfacial phenomena can be understood via common principles valid

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for many forms of
soft matter. Our
goal in organizing
this school was to
give students a
grasp of these
common
principles and
their many
ramifications and
possibilities. The
Les Houches

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comprised over
fifty 90-minute
lectures over four
weeks. Four four-
lecture courses by
Howard Stone,
Michael Cates,
David Nelson and
L. Mahadevan
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anchor for the

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program. A
number of shorter
courses and
seminars rounded
out the school.

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collects the
lecture notes of
the school.

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Basic fluid dynamic theory and applications in a single, authoritative reference The growing capabilities of computational fluid dynamics and the development of laser velocimeters and other new instrumentation have made a thorough understanding of

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dynamics. With
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insights for the
student, it includes
applications from the
mechanical, civil,
aerospace, chemical,

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and other fields.

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refresher or for first-
time learning,

Fundamentals of Fluid
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for engineers and
students in many
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with tomorrow's
engineers in a simple
yet precise manner.

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equations of fluid
mechanics in the
context of numerous
and diverse real-world
engineering
examples. The text
helps students
develop an intuitive
understanding of fluid

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mechanics by
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mechanics by emphasizing the physics, using figures, numerous photographs and visual aids to reinforce the physics. Fluid mechanics is by its very nature a highly visual subject, and students learn more readily by visual stimulation. This text distinguishes itself

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from others by the way the material is presented - in a progressive order from simple to more difficult, building each chapter upon foundations laid down in previous chapters. In this way, even the traditionally challenging aspects of fluid mechanics can be learned effectively.

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Covers the basic principles and equations of fluid mechanics in the context of several real-world engineering examples. This book helps students develop an intuitive understanding of fluid mechanics by emphasizing the physics, and by supplying figures,

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photographs and
visual aids to

reinforce the physics!

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AND APPLICATIONS

EBOOK: Fluid
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Applications (SI units)
Fundamentals of Fluid
Mechanics

Fundamental

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Mechanics of Fluids,
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Third Edition

Fundamentals and
Applications Manual
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sMcGraw-Hill
Education

This book
treats
cavitation,
which is a

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unique
phenomenon in
the field of
hyd- dynamics,
although it can
occur in any
hydraulic
machinery such
as pumps,
propellers,
artificial
hearts, and so
forth.

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Cavitation is generated not only in water, but also in any kind of fluid, such as liquid hydrogen. The generation of cavitation can cause severe damage in hydraulic machinery.

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Therefore, the prevention of cavitation is an important concern for designers of hydraulic machinery. On the contrary, there is great potential to utilize cavitation in

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various
important
applications,
such as
environmental
protection.
There have been
several books
published on
cavitation,
including one
by the same
authors. This

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book differs from those previous ones, in that it is both more physical and more theoretical. Any theoretical explanation of the cavitation phenomenon is rather

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difficult, but the authors have succeeded in explaining it very well, and a reader can follow the equations easily. It is an advantage in reading this book to have some

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understanding
of the physics
of cavitation.
Therefore, this
book is not an
introductory
text, but a
book for more
advanced study.
However, this
does not mean
that this book
is too

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And Applications
difficult for a
beginner,

because it

explains the

cavitation

phenomenon

using many

figures.

Therefore, even

a beginner on

cavitation can

read and can

understand what

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cavitation is.
If the student
studies through
this book (with
patience), he
or she can
become an
expert on the
physics of
cavitation.

Modern Fluid
Dynamics,
Second Edition

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provides up-to-date coverage of intermediate and advanced fluids topics. The text emphasizes fundamentals and applications, supported by worked examples and case

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studies. Scale
analysis, non-
Newtonian fluid
flow, surface
coating,
convection heat
transfer,
lubrication,
fluid-particle
dynamics,
microfluidics,
entropy
generation, and

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fluid-structure
interactions
are among the
topics covered.
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