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Designed for
higher level
courses in
viscous fluid
flow, this text
presents a

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comprehensive treatment of the subject. This revision retains the approach and organization for which the first edition has been highly regarded, while bringing the material completely up-to-date. It contains new

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information on
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incorporates a proven problem-solving methodology that will help them develop an orderly plan to finding the right solution. It starts with basic equations, then clearly states assumptions, and

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finally, relates results to expected physical behavior. Many of the steps involved in analysis are simplified by using Excel. Massey has long been a best-selling textbook. This

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extensively revised and updated eighth edition, like its predecessors, presents the basic principles of the mechanics of fluids in a thorough and clear manner. It provides the essential

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material for an honours degree course in civil or mechanical engineering, in addition to providing much relevant material for undergraduate courses in aeronautical and chemical engineering.

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Emphasis is given to a sound physical understanding of fluid flow and its engineering applications, rather than to mathematical techniques. Students are introduced systematically to the subject,

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with the text
moving from the
simple to the
complex, and
from the
familiar to the
unfamiliar. SI
units are used
throughout and
there are many
worked examples.
The book is
essentially self-
contained. The

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opening chapter
has been
expanded to
provide a
broader
introduction to
fluid mechanics.
New topics for
this edition
include basic
applications of
complex variable
theory, the
physics of

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tsunamis,
procedures for
the selection of
pumps and fans,
and the losses
for flow through
nozzles, orifice
meters,
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plates and
gauzes. For
lecturers, an
accompanying
solutions manual

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MECHANICS OF
FLUIDS presents
fluid mechanics
in a manner that
helps students
gain both an
understanding
of, and an
ability to
analyze the
important
phenomena
encountered by

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practicing engineers. The authors succeed in this through the use of several pedagogical tools that help students visualize the many difficult-to-understand phenomena of fluid mechanics.

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Mechanics of
Fluids, Eighth
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Fluid Mechanics
Boundary-Layer
Theory

*This text is
intended for a first
course in dynamic
systems and is
designed for use
by sophomore and*

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*junior majors in all
fields of*

*engineering, but
principally
mechanical and
electrical
engineers. All
engineers must
understand how
dynamic systems
work and what
responses can be*

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*expected from
various physical
systems.*

*Uncover Effective
Engineering
Solutions to
Practical Problems
With its clear
explanation of
fundamental
principles and
emphasis on real*

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*world applications,
this practical text
will motivate
readers to learn.*

*The author
connects theory
and analysis to
practical examples
drawn from
engineering
practice. Readers
get a better*

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*understanding of
how they can apply
these concepts to
develop
engineering
answers to various
problems. By using
simple examples
that illustrate basic
principles and
more complex
examples*

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*representative of
engineering
applications
throughout the text,
the author also
shows readers
how fluid
mechanics is
relevant to the
engineering field.
These examples
will help them*

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develop problem-solving skills, gain physical insight into the material, learn how and when to use approximations and make assumptions, and understand when these approximations

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might break down.

*Key Features of
the Text * The
underlying physical
concepts are
highlighted rather
than focusing on
the mathematical
equations. **

*Dimensional
reasoning is
emphasized as*

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*well as the interpretation of the results. * An introduction to engineering in the environment is included to spark reader interest. * Historical references throughout the chapters provide*

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rich history of fluid
mechanics.*

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graduate-level
courses in Fluid
Mechanics or
Hydraulics in
Mechanical,
Chemical, and Civil
Engineering
Technology and*

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Thermal-Fluid*

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a balanced
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and heat transfer
packaged in a
manner suitable for
use in introductory
thermal sciences
courses. By
emphasizing the*

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*physics and
underlying physical
phenomena
involved, the text
gives students
practical examples
that allow
development of an
understanding of
the theoretical
underpinnings of
thermal sciences.*

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general
understanding of
energy,
mechanisms of
energy transfer,
and the concept of
energy balance,
thermo-economics,
and conversion
efficiency. Learning*

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students develop
an intuitive feel for
underlying physical
mechanisms of
natural phenomena
and to gain a
mastery of solving
practical problems
that an engineer is
likely to face in the
real world. New*

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allows instructors
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creation of*

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and solutions from
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Mechanics*

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and Hydraulic
Machines*

*Brings together
classical and
recent
developments on
the application
of integral
equation*

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the solution of
fluid dynamic
problems.*

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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*

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their presentation to enable the gradual development of reader confidence in problem solving. Each important concept is introduced in easy-to-understand terms before more complicated

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examples are
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an increased number of real-world photos, and additional videos to augment the text material and help generate student interest in the topic. Example problems have been updated and numerous new

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*photographs,
figures, and
graphs have been
included. In
addition, there
are more videos
designed to aid
and enhance
comprehension,
support
visualization
skill building
and engage
students more*

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material and
concepts.*

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presentation of
all basic
principles of
fluid mechanics
(both statics
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tying theory
directly to real
devices and
systems used in
mechanical,
chemical, civil,
and*

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and more
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tubing, pumps,
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interpret
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material into
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make all of this
text's content
easier to study.
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features have
been added to
help students
explore ideas
more widely and
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content on many
topics, and
extensive new
references.*

ELEMENTARY FLUID

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MECHANICS BY
JOHN K. VENNARD

*Assistant
Professor of
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*PREFACE: Fluid
mechanics is the
study under all
possible
conditions of
rest and motion.
Its approaches*

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*analytical,
rational, and
mathematical
rather than
empirical it
concerns itself
with those basic
principles which
lead to the
solution of
numerous
diversified
problems, and it
seeks results*

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which are widely applicable to similar fluid situations and not limited to isolated special cases. Fluid mechanics recognizes no arbitrary boundaries between fields of engineering knowledge but

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attempts to solve all fluid problems, irrespective of their occurrence or of the characteristics of the fluids involved. This textbook is intended primarily for the beginner who knows the

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*principles of
mathematics and
mechanics but
has had no
previous
experience with
fluid phenomena.
The abilities of
the average
beginner and the
tremendous scope
of fluid
mechanics appear
to be in*

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*conflict, and
the former
obviously
determine limits
beyond which it
is not feasible
to go these
practical limits
represent the
boundaries of
the subject
which I have
chosen to call
elementary fluid*

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*mechanics. The
apparent
conflict between
scope of subject
and beginner f s
ability is only
along
mathematical
lines, however,
and the physical
ideas of fluid
mechanics are
well within the
reach of the*

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beginner in the field. Holding to the belief that physical concepts are the sine qua non of mechanics, I have sacrificed mathematical rigor and detail in developing physical pictures and in many cases have

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*stated general
laws only
without numerous
exceptions and
limitations in
order to convey
basic ideas such
oversimplificati
on is necessary
in introducing a
new subject to
the beginner.
Like other
courses in*

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*mechanics, fluid
mechanics must*

*include
disciplinary
features as well
as factual
information the
beginner must
follow
theoretical
developments,
develop
imagination in
visualizing*

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physical

phenomena, and

be forced to

think his way

through problems

of theory and

application. The

text attempts to

attain these

objectives in

the following

ways omission of

subsidiary

conclusions is

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*designed to
encourage the
student to come
to some
conclusions by
himself
application of
bare principles
to specific
problems should
develop
ingenuity
illustrative
problems are*

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included to assist in overcoming numerical difficulties and many numerical problems for the student to solve are intended not only to develop ingenuity but to show practical applications as well.

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of conservation of mass and energy, and of impulse-momentum law, to fluid motion. The principles of similarity and dimensional analysis are next taken up so that these principles may be used as tools

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developments.

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measurements,
and the text
ends with an
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mechanics, the
study of how
fluids behave
and interact
under various
forces and in*

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various

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applied situat

ions-whether

in the liquid

or gaseous

state or both-

is introduced

and comprehens

ively covered

in this widely

adopted text.

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updated by Dr.

David Dowling,
Fluid

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is suitable

for both a

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second course

in fluid

mechanics at

the graduate

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dozens of
other new
interactive
demonstrations
and
animations,
thereby
enhancing
their fluid
mechanics
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experience.

Text has been reorganized to provide a better flow from topic to topic and to consolidate portions that belong together.

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pedagogy
accommodate
the needs of
students who
have completed
minimal prior
study of fluid
mechanics.*

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new or revised
end-of-chapter*

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fluid
mechanical
principles and
draw on
phenomena that
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fundamental
concepts of
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elements. This
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examples and
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*understanding
and build
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provides a
broad and
comprehensive
coverage of
the
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are continued
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expanded
coverage of th
ree-
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employed in
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using
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software; and
a significant
increase in
the number of*

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of which are
oriented
towards
computer
applications.*

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Methods in
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Flow
The Finite
Element Method
Nunn provides an
overview of the topic
of fluid mechanics, a*

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*subject often
considered essential
in college engineering
programs.*

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Munson, Young, and
Okiishi in 1990.*

*This book provides the
first fully-fledged
history of
hydrodynamics,
including lively
accounts of the*

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hydraulics,
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meteorology, and
aeronautics that
motivated the main
conceptual
innovations. Richly
illustrated, technically
competent, and
philosophically
sensitive, it should*

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