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*Patrick
Oosthuizen,
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William

Carscallen Fluid
Mechanics:

Introduction to
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Flow (26 of 34)

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SUBJECT REVIEW

Shock Flow GD :

Gas dynamics

lectures

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~~Gas Dynamics —~~

~~Robert Zucker,
Oscar Biblarz~~

Compressible
Flow Problem

Example 1

~~Introduction to
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~~Fluid Flow,~~

~~Concept of~~

~~Continuum,~~

~~System and~~

~~Control Volume~~

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flow through

Nozzle Fluid

Mechanics:

Laminar Boundary

Layer on a Flat

Plate (31 of 34)

[CFD] When and

Why do I need

Operating

Pressure,

Temperature and

Density? How

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Dynamic and
Stagnation*

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1.4.1 What is a
Shockwave?
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~~principle 3d
animation~~

**Discuss subsonic
and supersonic
flow in nozzle
and diffuser**

Calc air

converging

diverging nozzle

Mach 1p5

~~Supersonic Speed
and Shock Waves~~

Fluid Mechanics:

Shock Waves (29

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| MODULE 3 |
PART 1 |
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4 - Choked Flow
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Flow Definition

of

Compressibility:

the fractional

change in volume

of the fluid

element per unit

change in

pressure p p p p

v $p + dp$ $p + dp$ p

$+ dp$ $p + dp$ $v - dv$

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The solution for

a subsonic

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flow over a wavy

wall is given in

Anderson,

Example 1 as $u =$

$\beta_1 V \cdot [1 + * (\cos$

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24) $e^{-zaby/l}$, v
 $= -V_{oh} \frac{24}{270} (\sin$
 $270) e^{-zaby/l}$,

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Bhat (Ph.D.)
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Author: Michel
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Publisher:
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1986: ISBN:

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Fluid Flow -
Michel A ...*

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flowing in a con
vergent-
diverging

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nozzle. At a particular location within the nozzle the density is 2.828 kg/m^3 , the stream temperature is 345 K , and the flow-rate is $1.395 \text{ m}^3/\text{s}$. If the cross-sectional area at this location is 0.0093 m^2 .

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The ebook
identifies the
phenomena
associated with
the various
properties of
compressible,
viscous fluids

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in unsteady, three-dimensional flow situations.

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Newtonian
fluids, first
assessing
general
situations and
then shifting
focus to more
specific
scenarios.

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experienced in
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flow. Updated
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thorough explanation of the assumptions used in the analysis of compressible flows. It develops in students an understanding of what causes compressible flows to differ from

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incompressible flows and how they can be analyzed. This book also offers a strong foundation for more advanced and focused study. The book begins with discussions of the analysis of isentropic

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flows, of normal
and oblique
shock waves and
of expansion
waves. The final
chapters deal
with nozzle
characteristics,
friction
effects, heat
exchange
effects, a
hypersonic flow,
high-temperature

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gas effects, and
low-density
flows. This book
applies real-
world
applications and
gives greater
attention to the
supporting
software and its
practical
application.
Includes
numerical

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Results obtained using a modern commercial CFD (computer fluid dynamics) code to illustrate the type of results that can be obtained using such a code Replaces BASIC language programs with MATLAB® routines

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software which
readers can use
to do

compressible
flow computation

Additional
problems have
been added, and
non-numerical

problems
illustrating
practical
applications

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fluid flow and how they can be analyzed. This book also offers a strong foundation for more advanced and focused study. The book begins with discussions of the analysis of isentropic flows, of normal

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shock waves and
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waves. The final
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friction
effects, heat
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effects, a
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application.

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code Replaces
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summaries of the
major equations
developed in
each chapter. An
interactive
computer program
also accompanies
this book.

This reference
develops the

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fundamental
concepts of
compressible
fluid flow by
clearly
illustrating
their
applications in
real-world
practice through
the use of
numerous worked-
out examples and
problems. The

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fluid covers
concepts of
thermodynamics
and fluid
mechanics which
relate directly
to compressible
flow; discusses
isentropic flow
through a
variable-area
duct; describes
normal shock
waves, including

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moving shock waves and shock-tube analysis; explores the effects of friction and heat interaction on the flow of a compressible fluid; covers two-dimensional shock and expansion waves; provides a

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treatment of
linearized flow;
discusses
unsteady wave
propagation and
computational
methods in fluid
dynamics;
provides several
numerical
methods for
solving linear
and nonlinear
equations

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Fluid Flow in
compressible
flow; offers

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methods for

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nonintegrable

equations; and

describes

methods of

measurement in

high-speed flow.

Suitable for the

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Fluid Flow/
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practicing
engineer engaged
in compressible-
flow
applications.

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provides clear
explanations of
the physical
phenomena
encountered in
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fluid flow by

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providing more practical applications, more worked examples, and more detail about the underlying assumptions than other texts. Its broad topic coverage includes a thorough review

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of the fundamentals, a

wide array of

applications,

and unique

coverage of

hypersonic flow.

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emphasizing
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Fluid Flow,

physics,

statics, and

calculus to

describe the

behavior of

liquid matter;

as a strong

foundation in

these concepts

is essential

across a variety

of engineering

fields, this

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text likewise
pulls from civil
engineering,
mechanical
engineering,
chemical
engineering, and
more to provide
a broadly
relevant,
immediately
practicable
knowledge base.

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team of
educators who
are also
practicing
engineers, this
book merges
effective
pedagogy with
professional
perspective to
help today's
students become
tomorrow's
skillful

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Engineers.
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This
complementary
text provides
detailed
solutions for
the problems
that appear in
Chapters 2 to 18
of Computational
Techniques for
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(CTFD), Second

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Edition.

Consequently

there is no

Chapter 1 in

this solutions

manual. The

solutions are

indicated in

enough detail

for the serious

reader to have

little

difficulty in

completing any

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intermediate
steps. Many of
the problems

require the
reader to write
a computer
program to
obtain the
solution.

Tabulated data,
from computer
output, are
included where
appropriate and

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enhancements to the programs provided in CTFD are indicated in the solutions.

In some instances completely new programs have been written and the listing forms part of the solution.

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All of the
program
modifications,
new programs and
input/output
files are
available on an
IBM compatible
floppy direct
from C.A.J.
Fletcher. Many
of the problems
are substantial
enough to be

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considered mini-projects and the discussion is aimed as much at encouraging the reader to explore extensions and what-if scenarios leading to further development as at providing

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neatly packaged
solutions.

Indeed, in order to give the reader a better introduction to CFD reality, not all the problems do have a "happy ending". Some suggested extensions fail; but the reasons for the failure

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illuminating.
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Anderson's book
provides the
most accessible
approach to
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flow for
Mechanical and
Aerospace
Engineering
students and
professionals.

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Fluid Flow, and
"Design Boxes"
giving examples
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make the 3rd
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and user-
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before. The 3rd
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