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035: The \"Lean

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This is the expected result for an incompressible flow. For subsonic flow, an increase in velocity (positive  $du$ ) corresponds to a decrease in area (negative  $dA$ ),



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and vice-versa.  
For supersonic  
flow, an  
increase in  
velocity  
corresponds to  
an increase in  
area, and vice-  
versa.

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involving high  
speed flows  
and/or flows  
with large  
pressure  
differences,  
e.g. gas  
turbines, steam

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Much of basic gas dynamics is analytical, but in the modern era

Computational fluid

dynamics applies computing power to solve the otherwise-intractable nonlinear

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partial differential equations of compressible flow for specific geometries and flow characteristics.

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speed of sound

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CONTENTS vii

13.4.2 In What

Situations No

Oblique Shock

Exist or When.

215 13.4.3

Upstream Mach

Number, , and

Shock Angle, . . .

. . . . 221

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13.4.4 For Given  
Two Angles,

~~Fundamentals of  
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The velocity at  
a point in an  
isentropic flow  
of air is 10 m/s  
(a low speed  
flow), and the  
density and  
pressure are

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1.23 kg/m<sup>3</sup> and  
 $1.01 \times 10^5$  N/m<sup>2</sup>, respectively.

The fractional change in velocity at the point is 0.01. Calculate the fractional change in density.

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with the basics of compressible fluid dynamics, including governing equations, thermodynamic context and characteristic parameters. The next large block of lectures covers quasi-one-dimensional

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flow, followed  
by a discussion  
of disturbances  
and unsteady  
flows.

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