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Basic principles of fluid mechanics and physical thermodynamics. ... Introduction to Fluid Mechanics Malcolm J. McPherson 2 - 2 When two moving molecules in a fluid converge on each other, actual collision is averted (at normal ... steady-flow thermodynamics are introduced in Chapter 3.

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### **Thermodynamics and Fluid Mechanics - Handbook Archive**

fluid mechanics: fundamentals and applications Published by McGraw-Hill, a business unit of The McGraw-Hill Companies, Inc., 1221 Avenue of the Americas, New York, NY 10020.

## FLUID MECHANICS

May 20, 1999 Elements of Fluid Mechanics and Thermodynamics Professor F. L. Dryer Two Hours - Solve all of Problems 1-4 INSTRUCTIONS: Complete answers to all of the problems below.

### 224 May 20, 1999 Elements of Fluid Mechanics and

The chapter presents the basic physical laws of fluid mechanics and thermodynamics, developing them into a form suitable for the study of turbomachines such as the continuity of flow equation, the first law of thermodynamics and the steady flow energy equation, the momentum equation, and the second law of thermodynamics.

### Fluid Mechanics and Thermodynamics of Turbomachinery

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P ... Fluid Mechanics 1 T L Power (Guy-L P 1 V 1 = P 2 V 2 B y L Q = Av A 1 v 1 = A 2 v 2 + V ... Thermodynamics  $\dot{Q} = h A v = A 2 v P = \text{rate of heat transfer}$

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