

Table of contents provided by Syndetics

- **I Basic Principles of Fluid Mechanics**
- **1 Fundamental Notions**
- **2 Fluid Statics**
- **3 Foundations of Flow Analysis**
- **4 Basic Laws for Finite Systems and Finite Control**
- **Volume I Continuity and Momentum**
- **5 Basic Laws for Finite Systems and Finite Control**
- **Volume II Thermodynamics**
- **6 Differential Forms of the Basic Laws**
- **7 Dimensional Analysis and Similitude II Analysis of Important Internal Flows**
- **8 Incompressible Viscous Flow Through Pipes**
- **9 General Incompressible Viscous Flow: The Navier-Stokes Equations**
- **10 One-Dimensional Compressible Flow**
- **III Analysis of Important External Flows**
- **11 Potential Flow**
- **12 Boundary-Layer Theory**
- **13 Free-Surface Flow**
- **14 Computational Fluid Mechanics**
- **Appendixes**
- **A1 General First Law Development**
- **A2 Prand's Universal Law of Friction**
- **A3 Mollier Chart B Curves and Tables**