Hydromechanics. Theory and Fundamentals

Description: Written by an experienced author with a strong background in applications of this field, this monograph provides a comprehensive and detailed account of the theory behind hydromechanics. It contains numerous appendices with mathematical tools, backed by extensive illustrations. The result is a must-have for all those needing to apply the methods in their research, be it in industry or academia.

Contents:
- Kinematics of the Deformable Medium
- Dynamic Equations of Continuum
- Closed Systems of Mechanical Equations for the Simplest Models of Continuum
- Basic Notions and Equations of Thermodynamics
- Setting up of Problems in Continuum Mechanics
- Hydrostatics
- Stationary Motion of Continuum Medium
- Application of Integral Relations to finite Volumes of Continuum Medium in Stationary Motion
- Potential Flow of Incompressible Fluid
- Two-dimensional Stationary Potential Motion of Incompressible Fluid
- Motion of Ideal Compressible Gas
- Dynamics of Viscous Incompressible Fluid
- Flow of Viscous Incompressible Fluid at Small Reynolds Number
- Laminar Boundary Layer
- Turbulent Flow of Fluid

Appendix
A Fundamentals of Vector and Tensor Calculus
B Some Notions of Differential Geometry
C Main Notions of the Probability Theory
D Basics of Complex Analysis

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