



Introduction to Fluid: Mechanics and Fluid Machines (Third Edition)

By Gautam Biswas, S.K. Som, Suman Chakraborty

Tata McGraw-Hill Education Pvt. Ltd., 2017. Softcover. Condition: New. 5th or later edition. This book provides the reader with a good foundation to understand fluid mechanics and apply that knowledge in the proliferating world of engineering science. The content has been rearranged and rejuvenated in such a way that each chapter introduces the topic and then familiarises the readers with all the associated principles and applications in a systematic manner. Salient Features Introduction to fundamental concepts through elementary principles of continuum mechanics. Thoroughly revised treatment of fundamental equations of conservation which includes both differential and integral approach based on control mass system and control volume formulation. Expanded coverage of Fluid Kinematics with detailed description (both analytical and physical) of rotational flows, circulation, velocity potential and vortex flows. Enhanced coverage of Boundary Layer, Turbulent Flows, Unsteady and Compressible Flows. Complete derivation of the Navier Stokes equation in a concise and lucid manner. Table of Contents 1. Introduction and Fundamental Concepts 2. Fluids Under Rest/Rigid Body Motion 3. Kinematics of Fluid Flow 4. Dynamics of Inviscid Flows: Fundamentals and Applications 5. Integral Forms of Conservation Equations 6. Principles of Physical Similarity and Dimensional Analysis 7. Flow of Ideal Fluids 8. Dynamics of Viscous...



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