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Chapter 1 Introduction to Fluid Mechanics 1.1 What is Fluid Mechanics? Fluid mechanics deals with the study of all fluids under static and dynamic situations. Fluid mechanics is a branch of continuous mechanics which deals with a relationship between forces, motions, and statical conditions in a continuous material.

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A Mathematical Introduction to Fluid Mechanics Alexandre Chorin Department of Mathematics University of California, Berkeley Berkeley, California 94720-3840, USA Jerrold E. Marsden Control and Dynamical Systems, 107-81 California Institute of Technology Pasadena, California 91125, USA

A Mathematical Introduction to Fluid Mechanics

Introduction to Fluid Mechanics Introduction 1 This chapter is devoted to a brief discussion of the fundamental postulates governing the motion of fluids, the types of flow that are to be investigated, the physical properties of fluids, and vector notation.

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