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Fluids are studied in a mathematical manner so that much that remains uninvestigated in standard fluids texts is revealed here. A typical example is the local decomposition of a velocity vector described in terms of the deformation tensor at an early stage in the book and is closely related to the well known Helmholtz decomposition.

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A MATHEMATICAL INTRODUCTION TO FLUID MECHANICS 3 The cross product is only between two vectors in three space dimension. Let $v = (v_1; v_2; v_3)$, $u = (u_1; u_2; u_3) \in \mathbb{R}^3$. Then the cross product is defined by $v \times u = (v_2 u_3 - v_3 u_2; v_3 u_1 - v_1 u_3; v_1 u_2 - v_2 u_1)$: (0.5) It is convenient to consider the operator for the gradient as $\nabla = (\partial/\partial x_1; \partial/\partial x_2; \partial/\partial x_3)$. Then, $\nabla \cdot c = \partial c/\partial x_1; \partial c/\partial x_2; \partial c/\partial x_3$

Notations

Introduction. These notes are based on a one-quarter (i. e. very short) course in fluid mechanics taught in the Department of Mathematics of the University of California, Berkeley during the Spring of 1978. The goal of the course was not to provide an exhaustive account of fluid mechanics, nor to assess the engineering value of various approximation procedures.

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Mathematical Introduction to Fluid Mechanics presents some selected highlights of currently interesting topics in fluid

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mechanics in a compact form, as well as providing a concise and appealing exposition of the basic theory of fluid mechanics. The first chapter contains an elementary derivation of the equations, and the concept of vorticity is introduced.

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