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A MATHEMATICAL INTRODUCTION TO FLUID MECHANICS 3 The cross product is only between two vectors in three space

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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 $v \times u = (v_2u_3 - v_3u_2; v_3u_1 - v_1u_3; v_1u_2 - v_2u_1)$:

(0.5) It is convenient to consider the operator for the gradient as $\nabla = (\frac{\partial}{\partial x_1}; \frac{\partial}{\partial x_2}; \frac{\partial}{\partial x_3})$. Then, $\nabla \cdot c = \frac{\partial c}{\partial x_1}; \frac{\partial c}{\partial x_2}; \frac{\partial c}{\partial x_3}$

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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