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Lecture 01. Steve To

Brunton:

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you'd enjoy My favorite

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Mechanics. Alexandre J.

Chorin, Jerrold E.

Marsden. The goal of

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this text is to present
some of the basic ideas
of fluid mechanics in a
mathematically
attractive manner, to
present the physical
background and
motivation for some
constructions that have
been used in recent
mathematical and
numerical work on the
Navier-Stokes equations
and on hyperbolic

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systems and to interest

some of the students in

this beautiful and

difficult subject.

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...

Fluids are studied in a

mathematical manner so

that much that remains

uninvestigated in

standard fluids texts is

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revealed here. A typical

example is the local

decomposition of a

velocity vector

described in terms of the

deformation tensor at an

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and is closely related to

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decomposition.

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The cross product is

only between two

vectors in three space

dimension. Let $v =$

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$(v_1; v_2; v_3), u = (u_1; u_2; u_3) \in \mathbb{R}^3$.

Then the cross product is defined by $v \times u =$

$(v_2u_3 - v_3u_2; (v_1u_3 - v_3u_1); v_1u_2 - v_2u_1)$:

(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, $\nabla \cdot c = \frac{\partial c}{\partial x_1}; \nabla \cdot c$

Notations

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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

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assess the engineering
value of various
approximation
procedures.

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of some of the basic ideas of fluid mechanics in a mathematically attractive manner. The text illustrates the physical background and motivation for some constructions used in recent mathematical and numerical work on the Navier- Stokes equations and on hyperbolic systems, so as to interest students in

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Mechanics presents
some selected highlights
of currently interesting
topics in fluid
mechanics in a compact
form, as well as
providing a concise and
appealing exposition of
the basic theory of fluid
mechanics. The first

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chapter contains an elementary derivation of the equations, and the concept of vorticity is introduced.

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Math 654 Introduction
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2008 - Mathematics .

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mathematically oriented

introduction to fluid

dynamics for students in

math, science, and

engineering. The term

“fluid” refers to a liquid

or a gas - the key

property is that a fluid

deforms easily in

response to an applied

force. ...

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