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Lecture 01. Steve

Brunton: \"Introduction
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This equation will
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Statics and Bernoulli's

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Fluid Mechanics
Introduction to Fluid
Mechanics. Alexandre J.
Chorin, Jerrold E.

Marsden. The goal of
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

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constructions that have been used in recent mathematical and numerical work on the Navier-Stokes equations and on hyperbolic 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
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

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the well known
Helmholtz
decomposition.

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

(0.5) It is convenient to
consider the operator

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for the gradient as $r =$
($x_1; x_2; x_3$). Then, $r_c = \frac{1}{r} \frac{\partial}{\partial x_c}$

Mathematics V

4 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,

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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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and motivation for some

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to interest students in
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and difficult subject.

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Chorin, Alexandre A
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Mechanics, Third
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Mathematical
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Mechanics presents
some selected highlights

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

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2008 - Mathematics .

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engineering. The term
“ fluid ” refers to a

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liquid or a gas - the key
property is that a fluid
deforms easily in
response to an applied
force. ...

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by Alexandre J. Chorin,

Jerrold E. Marsden and

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