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physics and mathematics concerned with

the response of matter that continuously

deforms (flows) when subjected to a shear

stress. The subject can be divided into

fluid statics - the study of fluids at rest,

and fluid dynamics - the study of the effect

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of forces on fluid motion.

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This text is an outgrowth of lectures I have  
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24 years.

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The fundamental principles. of fluid mechanics include three basic units of study: fluid statics, fluid kinematics, and fluid. dynamics (Section 1.2). The physical properties/characteristics of a fluid system, along with. the fluid kinematics and fluid dynamics, will determine the type of fluid flow (Section 1.3).

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Fluid mechanics is an undergraduate subject for civil engineers which basically deals with fluids including, liquids, gases and plasmas. Different equations and formulas are there to calculate the discharge, velocity etc of fluids and many

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other techniques are available which all are discussed under this subject.

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Fluid mechanics is a traditional cornerstone in the education of civil

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engineers. As numerous books on this subject suggest, it is possible to introduce fluid mechanics to students in many ways. This text is an outgrowth of lectures I have given to civil engineering students at the University of Canterbury during the past 24 years.

## ~~FLUID MECHANICS FOR CIVIL ENGINEERS~~

Fluid mechanics refers to a broad engineering field that studies the fundamental behavior of fluids, substances known to statically deform under applied shear stresses. Within this field, a number of sub-disciplines have developed. Water resources and hydraulic engineering deals primarily with flow through pipe networks, channels, and other systems that control the quantity, quality and distribution of water; aerodynamics involves the flow of air around aircraft;



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and gas dynamics focuses on ...

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Fluid mechanics is the branch of physics that studies fluids and forces on them.

Fluid is defined as any gas or liquid that adapts shape of its container. Fluid mechanics has following branches; fluid statics, the study of the behavior of stationary fluids; fluid kinematics, the study of fluids in motion; and fluid dynamics, the study of the effect of forces on fluid motion.

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Fluid mechanics is an important aspect of Civil, Mechanical and Chemical Engineering. This branch of science deals with the study of fluids in a state of rest or motion. Its various branches are fluid

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statics, fluid kinematics and fluid dynamics.

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An ideal textbook for civil and environmental, mechanical, and chemical engineers taking the required Introduction to Fluid Mechanics course, Fluid Mechanics for Civil and Environmental Engineers offers clear guidance and builds a firm real-world foundation using practical examples and problem sets.

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The Fluid Mechanics Research Group at  
UCL is hosted in the Department of Civil,  
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(CEGE), and investigates the hydrodynamics, turbulence and transport processes in fluvial, coastal and offshore waters, as well as airflows in the built environment.

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