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An Introduction to Fluid Mechanics by  
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examples, exercises, and applications. The

goal of this textbook is to introduce the

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reader to the analysis of flows using the laws of physics and the language of mathematics.

An Introduction to Fluid Mechanics,  
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There are two aspects of fluid mechanics which make it different to solid mechanics:



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1. The nature of a fluid is much different to that of a solid
2. In fluids we usually deal with continuous streams of fluid without a beginning or end. In solids we only consider individual elements.

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Fluid mechanics is the branch of physics concerned with the mechanics of fluids

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Fluid mechanics is the study of fluids at rest and at motion and can be divided into two main categories, which are static fluid mechanics and dynamic fluid mechanics.

In static fluid mechanics, the fluid is either

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at rest or is undergoing rigid-body motion. In dynamic fluid mechanics, the fluid may have an acceleration term and can undergo deformations. Five relationships are the most useful in fluid mechanics problems, which include kinematic, stresses, conservation, regulating, and ...

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