

### **fluid mechanics and thermodynamics pdf**

Fluid mechanics is the branch of physics concerned with the mechanics of fluids (liquids, gases, and plasmas) and the forces on them. It has applications in a wide range of disciplines, including mechanical, civil, chemical and biomedical engineering, geophysics, astrophysics, and biology. It can be divided into fluid statics, the study of fluids at rest; and fluid dynamics, the study of the ...

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FLUID MECHANICS TUTORIAL 9 COMPRESSIBLE FLOW On completion of this tutorial you should be able to • define entropy • derive expressions for entropy changes in fluids

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Equations of fluid dynamics. The foundational axioms of fluid dynamics are the conservation laws, specifically, conservation of mass, conservation of linear momentum (also known as Newton's Second Law of Motion), and conservation of energy (also known as First Law of Thermodynamics). These are based on classical mechanics and are modified in quantum mechanics and general relativity.

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