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## **Thermodynamics & Statistical Mechanics**

Fluid Mechanics and Thermodynamics of Turbomachinery Sixth Edition S. L. Dixon, B. Eng., Ph.D. Honorary Senior Fellow, Department of Engineering, University of Liverpool, UK C. A. Hall, Ph.D. University Lecturer in Turbomachinery, University of Cambridge, UK AMSTERDAM â€ BOSTON â€ HEIDELBERG â€ LONDON NEW YORK â€ OXFORD â€ PARIS â€ SAN DIEGO

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The handbook includes information on thermodynamics and the properties of fluids; the three modes of heat transfer - conduction, convection, and radiation; and fluid flow, and the energy relationships in fluid systems.

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The chapter presents the basic physical laws of fluid mechanics and thermodynamics, developing them into a form suitable for the study of turbomachines such as the continuity of flow equation, the first law of thermodynamics and the steady flow energy equation, the momentum equation, and the second law of thermodynamics.

## **Fluid Mechanics and Thermodynamics of Turbomachinery**

Content. 1. Fundamentals of Statistical Mechanics: Postscript PDF Introduction; Microcanonical Ensemble; Entropy and the Second Law; Temperature; Two-State Spin System; First Law of Thermodynamics; Canonical Ensemble; Energy Fluctuations; Chemical Potential; Grand Canonical Ensemble.

## **David Tong -- Lectures on Statistical Physics**

Thermodynamics is the branch of physics that has to do with heat and temperature and their relation to energy and work. The behavior of these quantities is governed by the four laws of thermodynamics, irrespective of the composition or specific properties of the material or system in question. The laws of thermodynamics are explained in terms of microscopic constituents by statistical mechanics.

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