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### Book

Title

**Mathematical foundations of thermodynamics**

Author(s)

[Giles, R](#) ; [Sneddon, I N](#) ; [Stark, M](#) ; [Ulam, S](#)

Publication

Burlington, MA : Elsevier Science, 2013. - 252 p.

Subject category

Other Fields of Physics

Abstract

Mathematical Foundations of Thermodynamics details the core concepts of the mathematical principles employed in thermodynamics. The book discusses the topics in a way that physical meanings are assigned to the theoretical terms. The coverage of the text includes the mechanical systems and adiabatic processes; topological considerations; and equilibrium states and potentials. The book also covers Galilean thermodynamics; symmetry in thermodynamics; and special relativistic thermodynamics. The book will be of great interest to practitioners and researchers of disciplines that deal with thermodyn

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