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STATISTICAL-MECHANICAL ENSEMBLES AND THERMODYNAMICS. 1-1 Introduction. The object of thermodynamics is to derive mathematical relations which connect different

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experimental properties of macroscopic systems in equilibrium—systems containing many molecules, of the order of, say, 10<sup>20</sup> or more.

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Heat and Thermodynamics (7th ed.). McGraw-Hill. ISBN 978-0070170599. Both thermodynamics and statistical mechanics. Reif, Frederick (1965). Fundamentals of Statistical and Thermal Physics. McGraw-Hill. ISBN 0-07-051800-9. Sears, Francis W. (1975). Thermodynamics, Kinetic Theory, and Statistical Thermodynamics. Addison Wesley. ISBN 020106894X.

List of textbooks in thermodynamics and statistical ...

10) S. R. de Groot □The Thermodynamics of Irreversible Processes, □ North Holland Publishing Co., Amsterdam (1951) 11) K. G. Denbigh : □Tsermodynamics of the Steady State□, Methuen, London (1951). 12) I. Prigogine : □Introduction to Thermodynamics of Irreversible Processes□ Interscience Pdblishers, New York (1961)

Non-equilibrium Thermodynamics of Thermo-osmotic Effects ...

An Introduction to Statistical Thermodynamics, Terrell Hill, Dover Books, 1987 This inexpensive paperback is a tour-de-force in laying out the foundations and early theoretical advancements of statistical mechanics Hill discusses many of the subtleties Introduction

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Classical Thermodynamics of Nonelectrolyte Solutions, Van Ness and Abbott, McGraw-Hill (1982). Thermodynamics, E.A. Guggenheim, North Holland, Amsterdam (1967). Statistical Thermodynamics An Introduction to Applied Statistical Thermodynamics, S.I. Sandler, John Wiley (2011) MSE 708: Thermodynamics of Materials Syllabus page 2

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1.8 Thermodynamics and statistical thermodynamics 1 INTRODUCTION macroscopic system would have to contain more than about ten thousand particles. Any system containing less than this number of particles would be regarded as essentially microscopic, and, hence, statistical arguments could not be applied to such a system without unacceptable error.

Thermodynamics & Statistical Mechanics

Abstract. 1. Classical thermodynamics. Recent developments have made it clear that continuum mechanics cannot be separated from thermodynamics. In the second half of the last century statistical mechanics has been created in order to provide a mechanical basis for thermodynamic phenomena.

Thermodynamic Aspects of Continuum Mechanics | SpringerLink

Statistical Thermodynamics, Springer, Berlin, Heidelberg, New York 1969) Google Scholar 2.12 T.L. Hill: Statistical Mechanics (McGraw-Hill 1956) Google Scholar

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