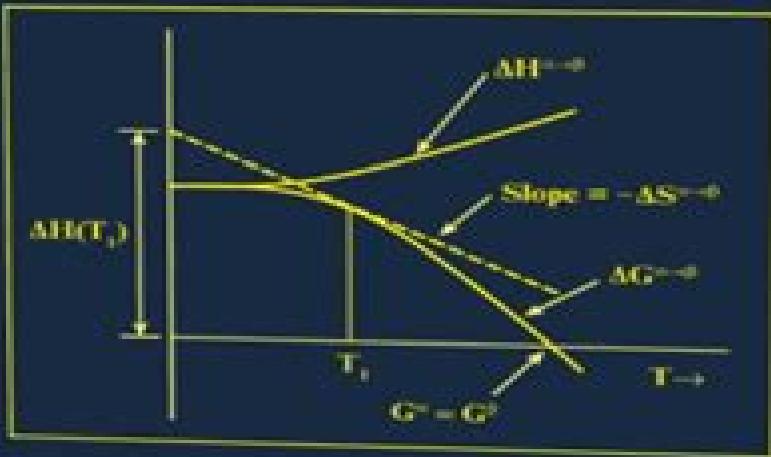


# Introduction to the **THERMODYNAMICS OF MATERIALS**

SIXTH EDITION



David R. Gaskell  
David E. Laughlin

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**Yicheng Fang**

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the mathematical beauty and rigor of Gibbs thermodynamics through the fundamental equation of thermodynamics from which all thermodynamic properties of a material can be derived. However a reader with basic first year undergraduate calculus skills will be able to get through the book without difficulty. One unique feature of this textbook is the descriptions of the step by step procedures for computing all the thermodynamic properties from the fundamental equation of thermodynamics and all the thermodynamic energies from a set of common experimentally measurable thermodynamic properties supplemented with ample numerical examples. Another unique feature of this textbook is its emphasis on the concept of chemical potential and its applications to phase equilibria in single component systems and binary solutions chemical reaction equilibria and lattice and electronic defects in crystals. The concept of chemical potential is introduced at the very beginning of the book together with temperature and pressure. It avoids or minimizes the use of terms such as molar Gibbs free energy partial molar Gibbs free energy or Gibbs potential because molar Gibbs free energy or partial molar Gibbs free energy is precisely the chemical potential of a material or a component. It is the chemical potential that determines the stability of chemical species compounds and phases and their tendency to chemically react to form new species transform to new physical state and migrate from one spatial location to another. Therefore it is the chemical potential differences or gradients that drive essentially all materials processes of interest. A reader after finishing reading the book is expected to not only achieve a high level fundamental understanding of thermodynamics but also acquire the analytical skills of applying thermodynamics to determining materials equilibrium and driving forces for materials processes.

#### *Transport Phenomena*

Robert S. Brodkey, Harry C. Hershey, 2003-02 Part II covers applications in greater detail. The three transport phenomena heat mass and momentum transfer are treated in depth through simultaneous or parallel developments.

#### *Catalog of Copyright Entries. Third Series*

Library of Congress. Copyright Office, 1959 Includes Part 1 Number 2 Books and Pamphlets Including Serials and Contributions to Periodicals July December.

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#### **Introduction to Materials Science for Engineers**

James F. Shackelford, 2009 For a first course in Materials Sciences and Engineering taught in the departments of materials science mechanical civil and general engineering. This text provides balanced current treatment of the full spectrum of engineering materials covering all the physical properties applications and relevant properties associated with

engineering materials It explores all of major categories of materials while also offering detailed examinations of a wide range of new materials with high tech applications Publisher s website   **Fundamentals of Heat and Mass Transfer** T. L. Bergman,2011-04-12 Fundamentals of Heat and Mass Transfer 7th Edition is the gold standard of heat transfer pedagogy for more than 30 years with a commitment to continuous improvement by four authors having more than 150 years of combined experience in heat transfer education research and practice Using a rigorous and systematic problem solving methodology pioneered by this text it is abundantly filled with examples and problems that reveal the richness and beauty of the discipline This edition maintains its foundation in the four central learning objectives for students and also makes heat and mass transfer more approachable with an additional emphasis on the fundamental concepts as well as highlighting the relevance of those ideas with exciting applications to the most critical issues of today and the coming decades energy and the environment An updated version of Interactive Heat Transfer IHT software makes it even easier to efficiently and accurately solve problems   [Books and Pamphlets, Including Serials and Contributions to Periodicals](#) Library of Congress. Copyright Office,1968

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