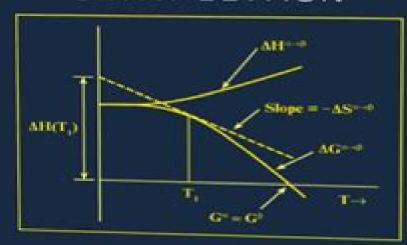
# Introduction to the THERMODYNAMICS OF MATERIALS

SIXTH EDITION



David R. Gaskell David E. Laughlin

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T. L. Bergman

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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 <u>Internal Combustion Engines</u> Richard Stone, 2017-09-16 Now in its fourth edition this textbook remains the indispensable text to guide readers through automotive or mechanical engineering both at university and beyond Thoroughly updated clear comprehensive and well illustrated with a wealth of worked examples and problems its combination of theory and applied practice aids in the understanding of internal combustion engines from thermodynamics and combustion to fluid mechanics and materials science This textbook is aimed at third year undergraduate or postgraduate students on mechanical or automotive engineering degrees New to this Edition Fully updated for changes in technology in this fast moving area New material on direct injection spark engines supercharging and renewable fuels Solutions manual online for lecturers

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