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thermodynamic software, an accurate and systematic understanding of thermodynamics is required. For that purpose, books from which one can learn thermodynamics from the basic to the advanced level are needed, but such books are rarely published. This book bridges the gap between the basics, which are treated in general thermodynamic books, and their application, which are only partially dealt with in most specialized books on a specific field. This textbook can be used to teach the basics of chemical thermodynamics and its applications to beginners. The basic part of the book is written to help learners acquire robust applied skills in an easy-to-understand manner, with in-depth explanations and schematic

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The aim of this book is to present Classical Thermodynamics in a unified way, from the most

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fundamental principles to non-uniform systems, thereby requiring the introduction of coarse graining methods, leading for instance to phase field methods. Solutions thermodynamics and temperature-concentration phase diagrams are covered, plus also a brief introduction to statistical thermodynamics and topological disorder.

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techniques generally presented separately in physics and materials texts.

"Thermodynamics of Materials" introduces the basic underlying principles of thermodynamics as well as their applicability to the behavior of all classes of materials, while providing an integrated approach from macro- (or classical) thermodynamics to meso- and nanothermodynamics, and microscopic (or statistical) thermodynamics. The book is intended for scientists, engineers and graduate students in all fields involving materials science-related disciplines. Both Dr. Qing Jiang and Dr. Zi Wen are professors at Jilin University.

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advanced students, Thermodynamics of Materials offers a lucid presentation that ties together classical and statistical treatments of thermodynamics within the framework of materials science. Unlike most books in the field, it emphasizes the natural connection between these two approaches, both as a way of obtaining useful information about real systems, and as a way of showing the relations between the molecular-level properties of systems, and their properties on a macroscopic scale. In this regard, the author's aim throughout the text is to introduce the rigorous, general relations that arise from classical thermodynamics, which are system independent, and then to use statistical thermodynamic relations to calculate the

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expected values of the macroscopic thermodynamic parameters of the systems. Thermodynamics of Materials includes a review of classical thermodynamics, an introduction to statistical thermodynamics, and numerous practical problems in thermodynamics, especially those involving phase and chemical equilibrium. Handy appendices enhance the value of this outstanding text.

This classic textbook is the definitive introduction to the thermodynamic behavior of materials systems. Written as a basic text for advanced undergraduates and first year graduate students in metallurgy, metallurgical engineering, ceramics, or materials

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