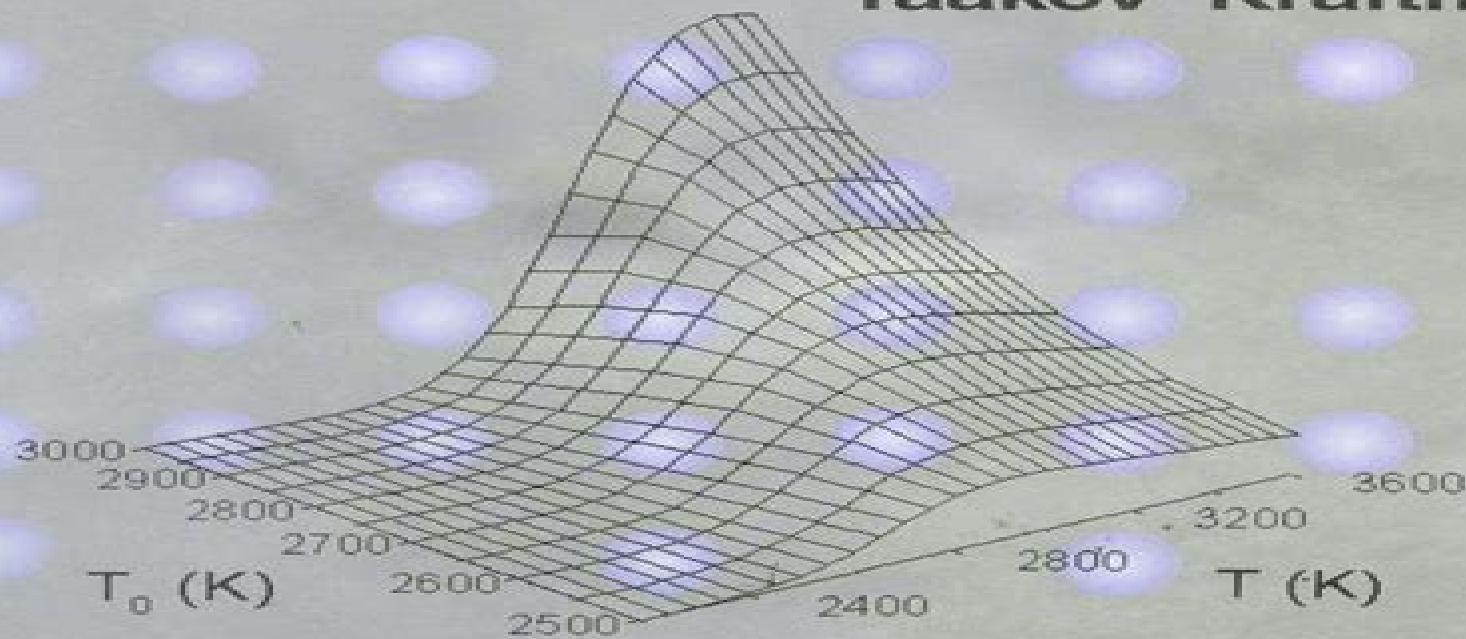


LECTURE NOTES ON
EQUILIBRIUM POINT DEFECTS
AND
THERMOPHYSICAL PROPERTIES
OF METALS

Yaakov Kraftmakher



World Scientific

Lecture Notes On Equilibrium Point Defects And Thermophysical Properties Of Metals

Yaakov Kraftmakher



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Eric J. Mittemeijer,2022-01-01 This textbook offers a strong introduction to the fundamental concepts of materials science It conveys the quintessence of this interdisciplinary field distinguishing it from merely solid state physics and solid state chemistry using metals as model systems to elucidate the relation between microstructure and materials properties Mittemeijer s *Fundamentals of Materials Science* provides a consistent treatment of the subject matter with a special focus on the microstructure property relationship Richly illustrated and thoroughly referenced it is the ideal adoption for an entire undergraduate and even graduate course of study in materials science and engineering It delivers a solid background against which more specialized texts can be studied covering the necessary breadth of key topics such as crystallography structure

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Modulation Calorimetry Yaakov Kraftmakher,2004-06-09 The monograph presents the various methods of the modulation and of measuring the temperature oscillations Important applications of the modulation techniques for studying physical phenomena in solids and liquids are considered in depth equilibrium point defects phase transitions superconductors liquid crystals biological materials relaxation phenomena in specific heat etc

Experiments and Demonstrations in Physics Yaakov Kraftmakher,2007 A laboratory manual for high schools colleges and universities this book contains more than 80 experiments and lecture demonstrations The coverage includes the essentials of general physics mechanics and molecular physics electricity and magnetism optics and atomic physics and condensed matter physics All the experiments are illustrated through the results of real measurements and include many novel experiments developed by the author

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Experimental Studies Of Boson Fields In Solids Ulrich Kobler,Andreas Hoser,2018-09-14 This book provides a new understanding of the large amount of experimental results gained in solid state physics during the last seven decades For more than 160 different materials data

analyses shown in terms of atomistic models Hamiltonians have not provided a quantitatively satisfactory description of either excitation spectra or dynamic properties Instead the experimental evidences have elaborated that field theories are necessary However most experimentalists are not familiar with field theories and realistic field theories of magnetism are absent The book illustrates in an empirical way the elements of future field theories of solid state physics with special emphasis on magnetic materials In contrast to the many available textbooks on quantum field theories that emphasize more on algorithmic formalities rather than referring to the experimental facts the approach in this book is pragmatic instead of abstract theoretic This methodical concept considerably facilitates experimentalists to get acquainted with the basic ideas of field theories even if a ready field theory is not provided by this experimental study **Proceedings of DIMAT2000** Y. Limoge, J. L. Bocquet, 2001 This book covers on close to 2000 pages all aspects of basic and applied diffusion research in all important engineering materials including metals and intermetallics elemental and compound semiconductors amorphous and nanocrystalline materials and oxides *Lecture Notes on Equilibrium Point Defects and Thermophysical Properties of Metals* Yaakov Kraftmakher, 2000 **Materials Transactions**, 2002 *Materials Transactions, JIM.*, 2002 Nuclear Science Abstracts, 1974 *An Introduction to Fundamentals of Diffusion in Solid State Materials* Reza Ghomashchi, 2024-12-24 Diffusion the movement of atoms in a material is an integral part of many metallurgical and materials treatment processes Understanding diffusion mechanisms helps to control and improve materials properties This book offers a comprehensive overview of diffusion in the synthesis and analysis of materials metals and non metals from the fundamentals through applications Discusses defects in materials fundamentals of the diffusion process and different diffusion mechanisms active in metallic alloys Describes diffusion within non metallic materials including ceramics polymers and semiconducting materials with special emphasis on silicon Covers diffusion along high energy paths short circuiting diffusion such as grain boundaries dislocations and materials surface Explores diffusion under thermal and electrical gradients and explains how this information is useful for materials purification Details the application of diffusion on carbides during the thermal and thermomechanical treatments of steels Includes problems and solutions for each chapter to reinforce reader's comprehension Written with less emphasis on complex mathematical equations this text is accessible to researchers and students in materials mechanical and related engineering disciplines studying the phenomenon of diffusion in materials and its application in the engineering of materials New Technical Books New York Public Library, 1981 Introduction to Ion Beam Biotechnology Zengliang Yu, 2007-07-28 Introduction to Ion Beam Biotechnology presents a comprehensive primer on radiation induced mutations and implantation of charged particles altering biological development As such it's one of the most intriguing and leading tools in bioengineering cells IIBB cover the physics of ions particles the biological effects of ion implantations in cells and the subsequent use in bacteria in viruses and in plants IIBB covers important areas Inducing genetic mutations on the molecular level Inducing cells to catalyze targeted gene transfer Ion beam technology is a new area

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