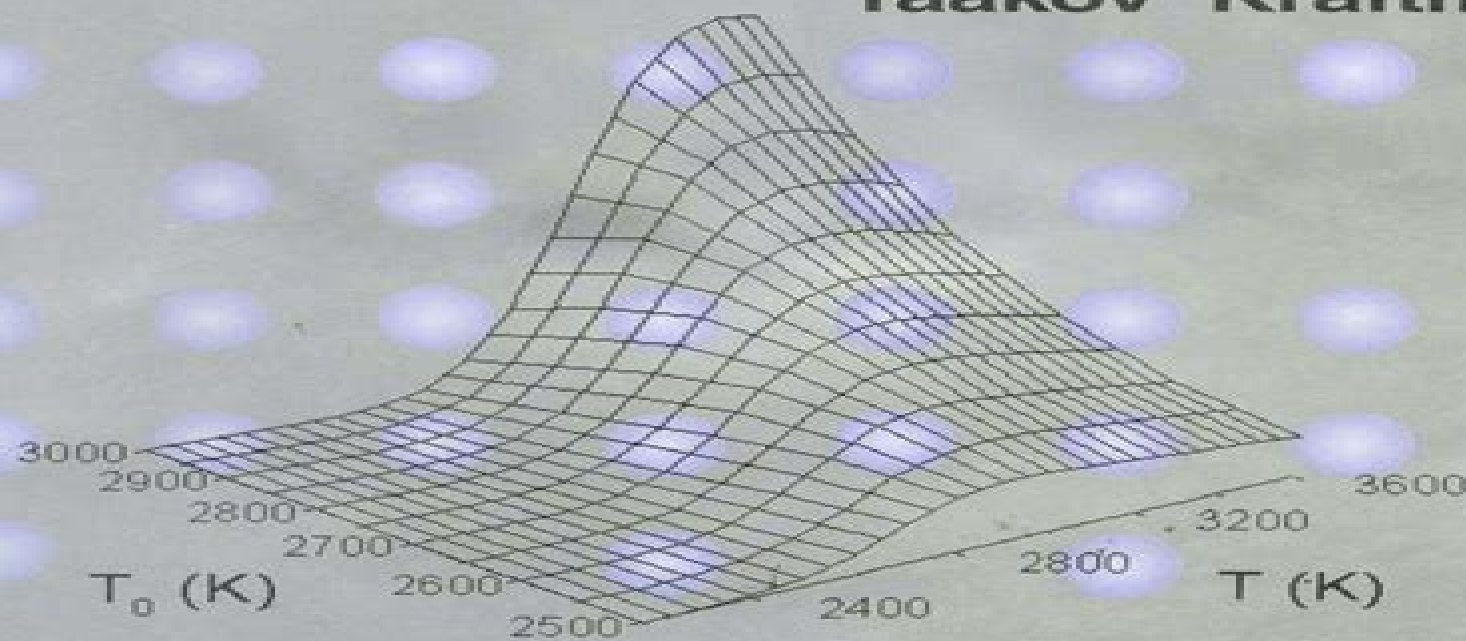


LECTURE NOTES ON  
**EQUILIBRIUM POINT DEFECTS**  
AND  
**THERMOPHYSICAL PROPERTIES**  
**OF METALS**

**Yaakov Kraftmakher**



**World Scientific**

# Lecture Notes On Equilibrium Point Defects And Thermophysical Properties Of Metals

**J Elliott**



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Kraftmakher, 2000-01-01 Despite the significant progress in the study of point defects in metals some important problems still do not have unambiguous solutions One of the most practically important questions relates to equilibrium defect concentrations There exist two opposite viewpoints 1 defect contributions to physical properties of metals at high temperatures are small and cannot be separated from the effects of anharmonicity the equilibrium defect concentrations at the melting points are in the range of  $10^{-4}$  to  $10^{-3}$  2 in many cases defect contributions to the specific heat of metals are much larger than nonlinear effects of anharmonicity and can be separated without crucial errors *Lecture Notes On*

*Equilibrium Point Defects And Thermophysical Properties Of Metals* Yaakov Kraftmakher, 2000-07-31 Despite the significant progress in the study of point defects in metals some important problems still do not have unambiguous solutions One of the most practically important questions relates to equilibrium defect concentrations There exist two opposite viewpoints 1 defect contributions to physical properties of metals at high temperatures are small and cannot be separated from the effects of anharmonicity the equilibrium defect concentrations at the melting points are in the range of  $10^{-4}$  to  $10^{-3}$  2 in many cases defect contributions to the specific heat of metals are much larger than nonlinear effects of anharmonicity and can be separated without crucial errors the equilibrium concentrations at the melting points are of the order of  $10^{-3}$  in low melting point metals and  $10^{-2}$  in high melting point metals This book discusses the experimental results and theoretical considerations favoring each claim At present the majority of the scientific community hold the first viewpoint Regrettably the data supporting the second viewpoint have never been displayed and discussed together and the criticism of this viewpoint has never included a detailed analysis Important arguments supporting this viewpoint have appeared in the last decade It may turn out that just calorimetric determinations provide the most reliable values of equilibrium defect concentrations in metals In this book the main attention is paid to equilibrium point defects in metals and their relation to thermophysical properties of metals Along with a discussion on experimental data and theoretical estimates now available some approaches are proposed that seem to be most suitable for settling the question Fundamentals of Materials Science

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

defects phase equilibria and transformations diffusion and kinetics and mechanical properties The success of the first edition has led to this updated and extended second edition featuring detailed discussion of electron microscopy supermicroscopy and diffraction methods an extended treatment of diffusion in solids and a separate chapter on phase transformation kinetics In a lucid and masterly manner the ways in which the microstructure can affect a host of basic phenomena in metals are described By consistently staying with the postulated topic of the microstructure property relationship this book occupies a singular position within the broad spectrum of comparable materials science literature it will also be of permanent value as a reference book for background refreshing not least because of its unique annotated intermezzi an ambitious remarkable work G Petzow in International Journal of Materials Research The biggest strength of the book is the discussion of the structure property relationships which the author has accomplished admirably In a nutshell the book should not be looked at as a quick cook book type text but as a serious critical treatise for some significant time to come G S Upadhyaya in Science of Sintering The role of lattice defects in deformation processes is clearly illustrated using excellent diagrams Included are many footnotes Intermezzos Epilogues and asides within the text from the author s experience This soon becomes valued for the interesting insights into the subject and shows the human side of its history Overall this book provides a refreshing treatment of this important subject and should prove a useful addition to the existing text books available to undergraduate and graduate students and researchers in the field of materials science M Davies in Materials World

#### **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

Experiments And Demonstrations In Physics: Bar-ilan Physics Laboratory Yaakov Kraftmakher, 2006-12-15 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

#### **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

still very young IIBB will be essential reading for any student researcher or industry professional seeking to understand and master the mechanisms of such mutations      *Applied Mechanics Reviews* ,1985      **Metal Progress** ,1956      Scientific and Technical Aerospace Reports ,1991      **U.S. Government Research & Development Reports** ,1970      Elastic And Inelastic Stress Analysis Irving H Shames,1997-02-01 Presents certain key aspects of inelastic solid mechanics centered around viscoelasticity creep viscoplasticity and plasticity It is divided into three parts consisting of the fundamentals of elasticity useful constitutive laws and applications to simple structural members providing extended treatment of basic problems in static structural mechanics including elastic and inelastic effects It contains worked out examples and end of chapter problems

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