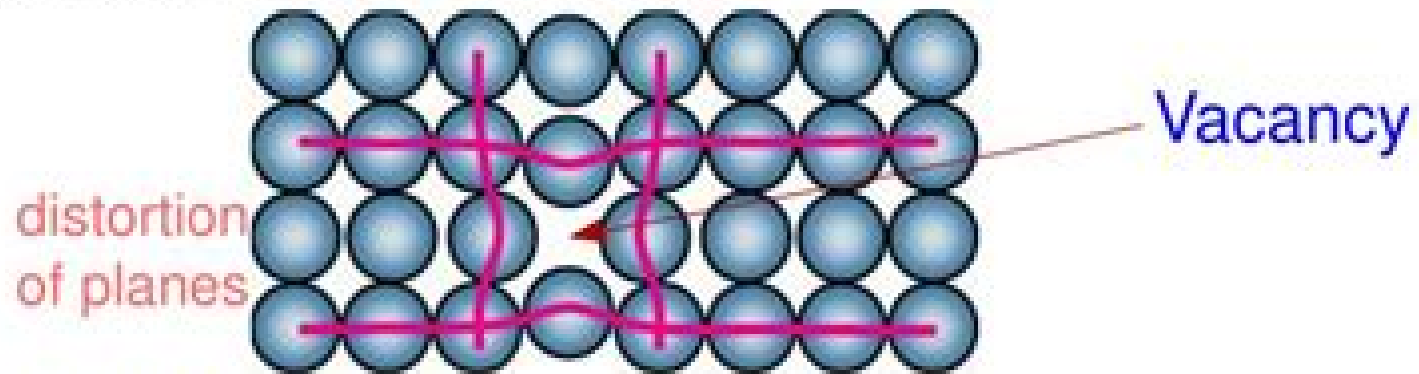
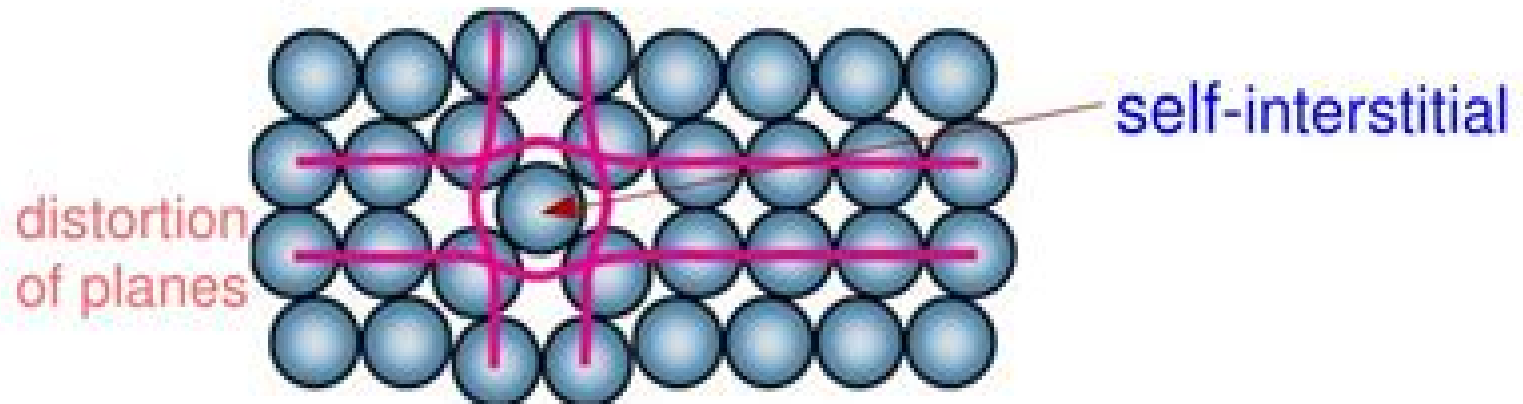


Point Defects in Metals

- Vacancies:
 - vacant atomic sites in a structure.



- Self-Interstitials:
 - "extra" atoms positioned between atomic sites.



Point Defects In Metals

Christian G. Meyer



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Point Defects in Metals, 1963 **Point Defects in Metals** Arthur C. Damask, George J. Dienes, 1971 **Point Defects in Metals**, 1978 **Point Defects in Metals I** G. Leibfried, N. Breuer, 2006-04-11 [Point Defects in Metals II](#) Springer, 2014-01-15 *Point-defects in metals* Günther Leibfried, Nikolaus Breuer, 1978 *Point Defects in Metals* Günther Leibfried, Nikolaus Breuer, 1978 [Point Defects in Metals II](#), 2006-04-11 **Vacancies and Other Point Defects in Metals and Alloys** Institute of Metals, 1958 [Point Defects in Metals](#) Nikolaus Breuer, 1978 *Point Defects in Solids* James H. Crawford, Lawrence M. Slifkin, 2013-03-09

Crystal defects can no longer be thought of as a scientific curiosity but must be considered an important aspect of solid state science. This is largely because many of the more interesting properties of crystalline solids are disproportionately dominated by effects due to a tiny concentration of imperfections in an otherwise perfect lattice. The physics of such lattice defects is not only of significance in a great variety of applications but is also interesting in its own right. Thus an extensive science of point defects and dislocations has been constructed during the past two and a half decades. Stimulated by the technological and scientific interest in plasticity there have appeared in recent years rather a large number of books dealing with dislocations in the case of point defects; however only very few broad and extensive treatments have been published. Thus there are few comprehensive tutorial sources for the scientist or engineer whose research activities are affected by point defect phenomena or who might wish to enter the field. It is partially to fill this need that the present treatise aims.

About Properties of Point Defects in Metals, 1986 **Recent Studies of Point Defects in Metals**, 1974 **Vacancies and Other Point Defects in Metals and Alloys** Institute of Metals, 1958

Properties of Point Defects in Metals and Alloys Wolfgang Schüle, Commission of the European Communities. Directorate-General for Science, Research, and Development, 1984 **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 Atomic Defects in Metals / Atomare Fehlstellen in Metallen H. Ullmaier,1991-09-30 Atomic or point defects are disturbances of the periodicity of the crystal lattice extending over only a few atomic distances Many physical and mechanical properties of solids are sensitive to their presence Furthermore other defects which are crucial to material behaviour are influenced by their interaction with atomic defects A detailed knowledge of production mechanisms and properties of point defects is therefore essential for assessing and for understanding the atomistic as well as the macroscopic behaviour of materials As a result of the use of new research methods in recent years such information is now available for almost all pure metals for many dilute alloys and for some concentrated alloys However a critical and comprehensive collection of these data has so far been missing The aim of the present volume is to close this gap by sifting evaluating and compiling data on vacancies and self interstitial atoms in solid metals A chapter on the element helium is included because of the exceptional position of He as an alloying element and its role in radiation damage phenomena Point Defects in Metals [by] A. C. Damask and G. J. Dienes A. C. Damask,George Julian Dienes,1971 Point Defects in Solids James H. Crawford, Lawrence M. Slifkin,2014-09-01 *About Properties of Point Defects in Metals* W. Schüle,1986

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Table of Contents Point Defects In Metals

1. Understanding the eBook Point Defects In Metals
 - The Rise of Digital Reading Point Defects In Metals
 - Advantages of eBooks Over Traditional Books
2. Identifying Point Defects In Metals
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Point Defects In Metals
 - User-Friendly Interface
4. Exploring eBook Recommendations from Point Defects In Metals
 - Personalized Recommendations
 - Point Defects In Metals User Reviews and Ratings
 - Point Defects In Metals and Bestseller Lists
5. Accessing Point Defects In Metals Free and Paid eBooks

- Point Defects In Metals Public Domain eBooks
- Point Defects In Metals eBook Subscription Services
- Point Defects In Metals Budget-Friendly Options
- 6. Navigating Point Defects In Metals eBook Formats
 - ePub, PDF, MOBI, and More
 - Point Defects In Metals Compatibility with Devices
 - Point Defects In Metals Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Point Defects In Metals
 - Highlighting and Note-Taking Point Defects In Metals
 - Interactive Elements Point Defects In Metals
- 8. Staying Engaged with Point Defects In Metals
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Point Defects In Metals
- 9. Balancing eBooks and Physical Books Point Defects In Metals
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Point Defects In Metals
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Point Defects In Metals
 - Setting Reading Goals Point Defects In Metals
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Point Defects In Metals
 - Fact-Checking eBook Content of Point Defects In Metals
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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