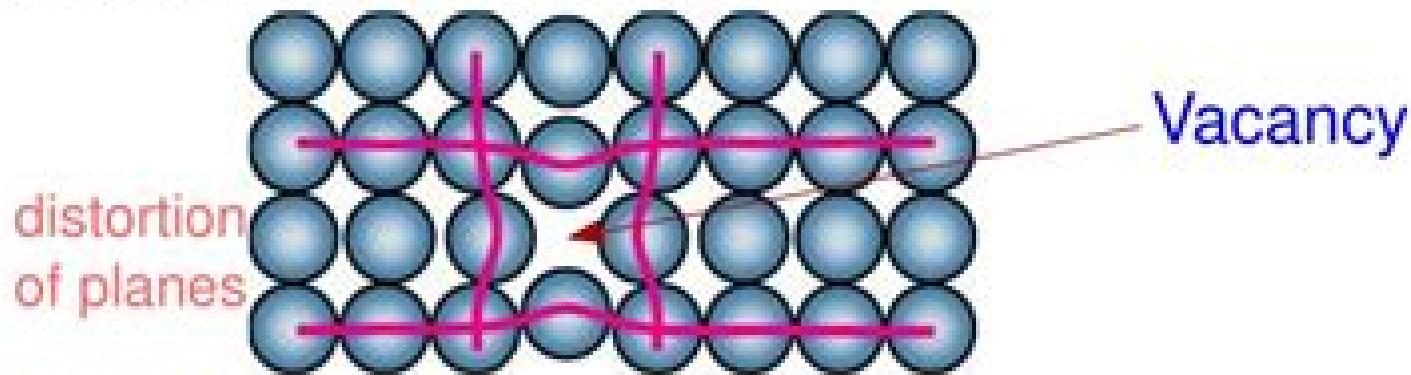


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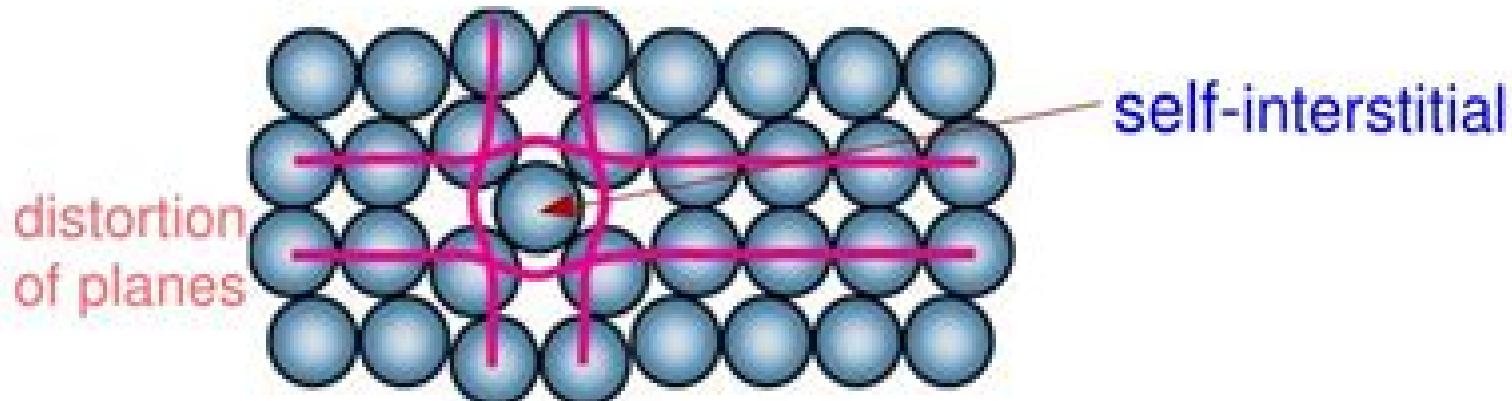
- Vacancies:

- vacant atomic sites in a structure.



- Self-Interstitials:

- "extra" atoms positioned between atomic sites.



# Point Defects In Metals

A Loxley

## **Point Defects In Metals:**

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## **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<sup>4</sup> to 10<sup>3</sup> 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<sup>3</sup> in low melting point metals and 10<sup>2</sup> 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

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

Point defects in metals I ,1978    **Vacancies and Other Point Defects in Metals and Alloys** Institute of Metals,1958    **Point Defects in**

**Metals** Nikolaus Breuer,1978    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

*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    Point Defects in Solids James H. Crawford,Lawrence M. Slifkin,2014-09-01    Point Defects in Solids James H. Crawford,Lawrence M. Slifkin,1972    **Ceramic Materials** C. Barry Carter,M. Grant Norton,2007-10-23 Ceramic Materials Science and Engineering is an up to date treatment of ceramic science engineering and applications in a single integrated text Building on a foundation of crystal structures phase equilibria defects and the mechanical properties of ceramic materials students are shown how these materials are processed for a broad diversity of applications in today s society Concepts such as how and why ions move how ceramics interact with light and magnetic fields and how they respond to temperature changes are discussed in the context of their applications References to the art and history of ceramics are included throughout the text The text concludes with discussions of ceramics in biology and medicine ceramics as gemstones and the role of ceramics in the interplay between industry and the environment Extensively illustrated the text also includes questions for the student and recommendations for additional reading KEY FEATURES Combines the treatment of bioceramics glass optics pores gemstones and point defects in a single text Provides abundant examples and illustrations relating theory to practical applications Suitable for advanced undergraduate and graduate teaching and as a reference for researchers in materials science Written by established and successful teachers and authors with experience in both research and industry

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