

Structural Aspects of the Electrical Resistivity of Binary Alloys*

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Using the weak scattering approximation and the Van Hove correlation-function technique, it is shown that the scattering function for a binary alloy (solid or liquid) is quite generally expressible in terms of three structure factors $S_{XX}(\vec{q})$, $S_{XC}(\vec{q})$, and $S_{CC}(\vec{q})$ constructed from the Fourier transforms of the local number density and concentration in the alloy. These structure factors have the property that at temperatures above the Debye temperature and in the long-wavelength limit ($q \rightarrow 0$), $S_{XX}(0)$ and $S_{CC}(0)$ represent, respectively, the mean square thermal fluctuations in the particle number and concentration, and $S_{XC}(0)$ the correlation between these two fluctuations. Thermodynamic formulas for these fluctuations are given and their concentration and temperature dependence examined for various types of mixtures (regular, order-disorder type, athermal, etc.). It is concluded that the present formalism, because of its ready link with the thermodynamic properties of the alloy, can be helpful in interpreting the various experimental data and provides useful insight into the partial structure factors introduced in the Faber-Ziman theory of liquid alloys.

I. INTRODUCTION

In the current treatment of the problem of electrical conductivity of metals (liquid or solid), the relevant scattering function describing the scattering of electrons is given by the product of two factors: a structure factor which depends only on the relative positions of the ions in the metal, and the atom form factor or the pseudopotential matrix element which describes the scattering due to the individual ions in the metal.¹⁻³ The method depends on assuming that the total potential, responsible for scattering, in the metal may be written as the sum of the potentials due to individual ions in the metal and that it can be regarded as weak. Faber and Ziman⁴ (FZ) have generalized this approach to discuss the electrical resistivity of liquid alloys. For a binary alloy the scattering function depends upon, in general, three independent partial structure factors which completely describe the structure of the alloy and the two form factors.

The transport properties of alloys have also been discussed on another, and seemingly unrelated, approach which is valid in the long-wavelength limit and which attributes the scattering of electrons - in analogy with the well-known theories^{5,6} of light

scattering in liquids and liquid mixtures - to the local thermal fluctuations in the density and concentration of the alloy. In particular, Krishnan and Bhatia⁷ showed that the observed strong temperature dependence of the resistivity of an order-disorder type of alloy near its critical point may be attributed to the corresponding temperature dependence of the concentration fluctuations. A somewhat similar approach has been recently suggested by Takeuchi and Endo¹⁰ for liquid alloys; see also Tomlinson and Lichter.¹¹

The work of the present paper may, in a sense, be regarded as constituting a generalization of the above fluctuation approach so that it is applicable at shorter wavelengths and low temperatures. It is shown that in the aforementioned weak scattering approximation, the scattering function for a binary alloy (solid or liquid) is quite generally expressible in terms of three structure factors $S_{XX}(\vec{q})$, $S_{XC}(\vec{q})$, and $S_{CC}(\vec{q})$, which are derived from the Fourier transforms of the local number density and concentration of the alloy. For liquid alloys and for solids above the Debye temperature, these structure factors have the property that in the long-wavelength limit ($q \rightarrow 0$), $S_{XX}(0)$ and $S_{CC}(0)$ represent, respectively, the mean square fluctuations in the particle

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Interconnection Technology Geraldine Cogan Schwartz, 2006-02-22 First introduced about a decade ago the first edition of the Handbook of Semiconductor Interconnection Technology became widely popular for its thorough integrated treatment of interconnect technologies and its forward looking perspective The field has grown tremendously in the interim and many of the likely directions outlined in the first ed

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valuable resource in this emerging field Silver Metallization Stability and Reliability will be very useful to students scientists engineers and technologists in the fields of integrated circuits and microelectronics research and development

Integrating Electrical Heating Elements in Product Design Thor Hegbom,1997-04-15 Offers details on the utilization of electrical heating elements in consumer appliance design and industrial processes The text includes basic theory metallurgy and production advice for developing more reliable and cost effective heaters It provides tables comparing resistivity and surface resistance of different materials and listing the resistance and weight per metre as well as surface per ohm of whole and half B S wire and ribbon sizes for common standard resistance heating alloys The book also contains calculation equations suitable for use in BASIC programs

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Fee-Based Services in Sci-Tech Libraries Ellis Mount,2013-10-18 This timely and important book explores how fee based services have developed in various types of sci tech libraries The authoritative contributors focus on the current changing financial aspects of the sci tech library operation and clarify for the reader how these changes have brought about conditions in which traditional methods of funding are no longer adequate What new options are open and how they are best being applied in today s sci tech libraries is fully and clearly explained and illustrated Topics explored include cost allocation and cost recovery fees for computer searching and the relationship between sci tech libraries and serials agents

CRC Handbook of Metal Etchants Perrin Walker,William H. Tarn,1990-12-11 This publication presents cleaning and etching solutions their applications and results on inorganic materials It is a comprehensive collection of etching and cleaning solutions in a single source Chemical formulas are presented in one of three standard formats general electrolytic or ionized gas formats to insure inclusion of all necessary operational data as shown in references that accompany each numbered formula The book describes other applications of specific solutions including their use on other metals or metallic compounds Physical properties association of natural and man made minerals and materials are shown in relationship to crystal structure special processing techniques and solid state devices and assemblies fabricated This publication also presents a number of organic materials which are widely used in handling and general processing waxes plastics and lacquers for example It is useful to individuals involved in study development and processing of metals and metallic compounds It is invaluable for readers from the college level to industrial R D and full scale device fabrication testing and sales Scientific disciplines work areas and individuals with great interest include chemistry physics metallurgy geology solid state ceramic and glass research libraries individuals dealing with chemical processing of inorganic materials societies and schools

Concise Encyclopedia of Semiconducting Materials & Related Technologies S. Mahajan,L. C. Kimerling,2013-10-22 The development of electronic materials and particularly advances in semiconductor technology have played a central role in the electronics revolution by allowing the production of increasingly cheap and powerful computing equipment and advanced telecommunications devices This Concise Encyclopedia which incorporates relevant articles from

the acclaimed Encyclopedia of Materials Science and Engineering as well as newly commissioned articles emphasizes the materials aspects of semiconductors and the technologies important in solid state electronics Growth of bulk crystals and epitaxial layers are discussed in the volume and coverage is included of defects and their effects on device behavior Metallization and passivation issues are also covered Over 100 alphabetically arranged articles written by world experts in the field are each intended to serve as the first source of information on a particular aspect of electronic materials The volume is extensively illustrated with photographs diagrams and tables A bibliography is provided at the end of each article to guide the reader to recent literature A comprehensive system of cross references a three level subject index and an alphabetical list of articles are included to aid readers in the abstraction of information Bibliography on the High Temperature Chemistry and Physics of Materials ,1982 *Electrical Resistivity Handbook* Gordon T. Dyos,Trevor Farrell,1992 This is a major reference publication compiling resistivity data as a function of temperature for metals alloys and semiconductor materials **Turbine Engine Hot Section Technology, 1987** ,1987 **Turbine Engine Hot Section Technology, 1985** ,1985 **High Temperature Electronics** F. Patrick McCluskey,Thomas Podlesak,Richard Grzybowski,2018-05-04 The development of electronics that can operate at high temperatures has been identified as a critical technology for the next century Increasingly engineers will be called upon to design avionics automotive and geophysical electronic systems requiring components and packaging reliable to 200 C and beyond Until now however they have had no single resource on high temperature electronics to assist them Such a resource is critically needed since the design and manufacture of electronic components have now made it possible to design electronic systems that will operate reliably above the traditional temperature limit of 125 C However successful system development efforts hinge on a firm understanding of the fundamentals of semiconductor physics and device processing materials selection package design and thermal management together with a knowledge of the intended application environments High Temperature Electronics brings together this essential information and presents it for the first time in a unified way Packaging and device engineers and technologists will find this book required reading for its coverage of the techniques and tradeoffs involved in materials selection design and thermal management and for its presentation of best design practices using actual fielded systems as examples In addition professors and students will find this book suitable for graduate level courses because of its detailed level of explanation and its coverage of fundamental scientific concepts Experts from the field of high temperature electronics have contributed to nine chapters covering topics ranging from semiconductor device selection to testing and final assembly **Handbook of Induction Heating** Valery Rudnev,Don Loveless,Raymond L. Cook,2017-07-14 The second edition of the Handbook of Induction Heating reflects the number of substantial advances that have taken place over the last decade in theory computer modeling semi conductor power supplies and process technology of induction heating and induction heat treating This edition continues to be a synthesis of information discoveries and technical insights that have

been accumulated at Inductoheat Inc With an emphasis on design and implementation the newest edition of this seminal guide provides numerous case studies ready to use tables diagrams rules of thumb simplified formulas and graphs for working professionals and students CRC Handbook of Tables for Applied Engineering Science Ray E. Bolz,2019-03-07 New tables in this edition cover lasers radiation cryogenics ultra sonics semi conductors high vacuum techniques eutectic alloys and organic and inorganic surface coating Another major addition is expansion of the sections on engineering materials and compos ites with detailed indexing by name class and usage The special Index of Properties allows ready comparisons with respect to single property whether physical chemical electrical radiant mechani cal or thermal The user of this book is assisted by a comprehensive index by cross references and by numerically keyed subject headings at the top of each page Each table is self explanatory with units abbreviations and symbols clearly defined and tabular material subdivided for easy reading *Physique des matériaux* Maurice Gerl,Jean-Paul Issi,1997-01-01 Physical Properties of Materials for Engineers Daniel D. Pollock,2020-10-07 Physical Properties of Materials for Engineers Second Edition introduces and explains modern theories of the properties of materials and devices for practical use by engineers Introductory chapters discuss both classical mechanics and quantum mechanics to demonstrate the need for the quantum approach Topics are presented in an uncomplicated manner extensive cross references are provided to emphasize the inter relationships among the physical phenomena Illustrations and problems based on commercially available materials are included where appropriate Physical Properties of Materials for Engineers Second Edition is an excellent introduction to solid state physics and practical techniques for students and workers in aerospace industry chemical engineering civil engineering electrical engineering industrial engineering materials science and mechanical and metallurgical engineering *Intermetallic Compounds* Jack Hall Westbrook,Robert Louis Fleischer,1995 This third volume continues to set the standard in the field as originally defined by the best selling two volume set Intermetallic Compounds Principles and Practice With contributions from 72 authors from 14 different countries this book introduces a broad range of new topics including new intermetallic families new means of assessment of bonding and stability new properties and phenomena new applications new practical processes and new research techniques Stand alone chapters set out in a manner that is meaningful to non specialists progressing to include knowledge useful to experts New fully revised and updated chapters on areas of intense research activity or great importance Providing definitions of intermetallic families intended to assist all readers Written for clarity consistency and thoroughness Full and up to date referencing to the literature Critical assessments of the state of the subject Acronym list consolidating new entries with those compiled for the two earlier volumes As with Volumes 1 and 2 this is an invaluable aid to both scientists and engineers Core reading for those who are starting research on intermetallics and for those who wish to exploit the unique properties of intermetallics in practical applications Handbook of Electromagnetic Materials P. S. Neelakanta,1995-06-27 This Handbook explains basic concepts underlying electromagnetic properties of

materials addresses ways of deploying them in modern applications and supplies pertinent data compiled for the first time in a single volume Examples including tables charts and graphs are furnished from a practical applications view point of electromagnetic materials in various fields These applications have grown enormously in recent years pertinent to electromagnetic shields radar absorbing materials bioelectromagnetic phantoms smart materials electromagnetically active surfaces exotic magnets application specific electrodes and ferrites etc

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Table of Contents Crc Handbook Of Electrical Resistivities Of Binary Metallic Alloys

1. Understanding the eBook Crc Handbook Of Electrical Resistivities Of Binary Metallic Alloys
 - The Rise of Digital Reading Crc Handbook Of Electrical Resistivities Of Binary Metallic Alloys
 - Advantages of eBooks Over Traditional Books
2. Identifying Crc Handbook Of Electrical Resistivities Of Binary Metallic Alloys
 - 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 Crc Handbook Of Electrical Resistivities Of Binary Metallic Alloys
 - User-Friendly Interface
4. Exploring eBook Recommendations from Crc Handbook Of Electrical Resistivities Of Binary Metallic Alloys
 - Personalized Recommendations
 - Crc Handbook Of Electrical Resistivities Of Binary Metallic Alloys User Reviews and Ratings
 - Crc Handbook Of Electrical Resistivities Of Binary Metallic Alloys and Bestseller Lists
5. Accessing Crc Handbook Of Electrical Resistivities Of Binary Metallic Alloys Free and Paid eBooks
 - Crc Handbook Of Electrical Resistivities Of Binary Metallic Alloys Public Domain eBooks
 - Crc Handbook Of Electrical Resistivities Of Binary Metallic Alloys eBook Subscription Services
 - Crc Handbook Of Electrical Resistivities Of Binary Metallic Alloys Budget-Friendly Options

6. Navigating Crc Handbook Of Electrical Resistivities Of Binary Metallic Alloys eBook Formats
 - ePub, PDF, MOBI, and More
 - Crc Handbook Of Electrical Resistivities Of Binary Metallic Alloys Compatibility with Devices
 - Crc Handbook Of Electrical Resistivities Of Binary Metallic Alloys Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Crc Handbook Of Electrical Resistivities Of Binary Metallic Alloys
 - Highlighting and Note-Taking Crc Handbook Of Electrical Resistivities Of Binary Metallic Alloys
 - Interactive Elements Crc Handbook Of Electrical Resistivities Of Binary Metallic Alloys
8. Staying Engaged with Crc Handbook Of Electrical Resistivities Of Binary Metallic Alloys
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Crc Handbook Of Electrical Resistivities Of Binary Metallic Alloys
9. Balancing eBooks and Physical Books Crc Handbook Of Electrical Resistivities Of Binary Metallic Alloys
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Crc Handbook Of Electrical Resistivities Of Binary Metallic Alloys
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Crc Handbook Of Electrical Resistivities Of Binary Metallic Alloys
 - Setting Reading Goals Crc Handbook Of Electrical Resistivities Of Binary Metallic Alloys
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Crc Handbook Of Electrical Resistivities Of Binary Metallic Alloys
 - Fact-Checking eBook Content of Crc Handbook Of Electrical Resistivities Of Binary Metallic Alloys
 - 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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