



# Electron Emission Adsorption Phenomena

**Jianjun Gao**



## **Electron Emission Adsorption Phenomena:**

**electron emission and adsorption phenomena** , Electron emission and adsorption phenomena, by j.h. de boer J. h De boer, Mrs h. e. (translator) Teves-acly, 1935      **Electron Emission and Adsorption Phenomena** Jan Hendrik Boer, 1935

**Electron Emission and Adsorption Phenomena** J.H. de Boer, 1959      **Electron-Emission Gas Discharges I / Elektronen-Emission Gasentladungen I** S. Flügge, 2012-12-06 v Formation of negative ions by processes other than attachment in the gaseous phase at low X po 17 Introduction As early as 1912 J J THOMSON 32J in his first mass spectrograph observed negative ions of O Cl H and what he believed to be N He at first ascribed these to possible dissociation of polar gaseous compounds by electron impact but control studies using ionization at low energies in glow discharges indicated that this was not the origin O W RICHARDSON 33J in his book on emission of electricity from hot bodies reported negative ions to come from hot salts From there on many experimental studies over the years indicated that negative ions could be formed by various processes By the middle nineteen hundred and thirties the data fairly clearly identified several processes as being active and MASSEY and SMITH 34J developed the theory underlying some of them More data are summarized in MASSEY S excellent little monograph on Negative Ions and in L SSEY and BURHOP S recent book 35 Since that period stimulated by various investigations and certain industrial problems very careful studies of the appearance of such ions by mass spectrograph have been carried out in the laboratory of K G EMELEUS in Belfast by SLOANE and his co workers 3J that have clarified the questions and indicated what ions have been observed and something of the processes at work      Theoretical Treatment of Electron Emission and Related Phenomena Benjamin Seznec, Tiberiu Minea, Philippe Dessante, Philippe Teste, Gilles Maynard, 2022-06-14 This book introduces readers to the physics governing electron emission under high voltages and temperatures and highlights recent modeling and numerical developments for describing these phenomena It begins with a brief introduction presenting several applications that have driven electron emission research in the last few decades The authors summarize the most relevant theories including the physics of thermo field electron emission and the main characteristic parameters Based on these theories they subsequently describe numerical multi physics models and discuss the main findings on the effect of space charges emitter geometry pulse duration etc Beyond the well known photoelectric effect the book reviews recent advanced theories on photon metal interaction Distinct phenomena occur when picosecond and femtosecond lasers are used to irradiate a surface Their consequences on metal electron dynamics and heating are presented and discussed leading to various emission regimes in and out of equilibrium In closing the book reviews the effects of electron emission on high voltage operation in vacuum especially breakdown and conditioning as the most common examples The book offers a uniquely valuable resource for graduate and PhD students whose work involves electron emission high voltage holding laser irradiation of surfaces vacuum or discharge breakdown but also for academic researchers and professionals in the field of accelerators and solid state physics with an interest in this highly topical area

*Electron emission, surface composition and adsorption phenomena...* Robert Bouwman, 1970      **Introduction to the Physics of Electron Emission** Kevin L. Jensen, 2024-08-19 A practical in depth description of the physics behind electron emission physics and its usage in science and technology Electron emission is both a fundamental phenomenon and an enabling component that lies at the very heart of modern science and technology Written by a recognized authority in the field with expertise in both electron emission physics and electron beam physics An Introduction to Electron Emission provides an in depth look at the physics behind thermal field photo and secondary electron emission mechanisms how that physics affects the beams that result through space charge and emittance growth and explores the physics behind their utilization in an array of applications The book addresses mathematical and numerical methods underlying electron emission describing where the equations originated how they are related and how they may be correctly used to model actual sources for devices using electron beams Writing for the beam physics and solid state communities the author explores applications of electron emission methodology to solid state statistical and quantum mechanical ideas and concepts related to simulations of electron beams to condensed matter solid state and fabrication communities Provides an extensive description of the physics behind four electron emission mechanisms field photo and secondary and how that physics relates to factors such as space charge and emittance that affect electron beams Introduces readers to mathematical and numerical methods their origins and how they may be correctly used to model actual sources for devices using electron beams Demonstrates applications of electron methodology as well as quantum mechanical concepts related to simulations of electron beams to solid state design and manufacture Designed to function as both a graduate level text and a reference for research professionals Introduction to the Physics of Electron Emission is a valuable learning tool for postgraduates studying quantum mechanics statistical mechanics solid state physics electron transport and beam physics It is also an indispensable resource for academic researchers and professionals who use electron sources model electron emission develop cathode technologies or utilize electron beams      *Electron emission and adsorption phenomena ; J. H. de Boer ; translated from the manuscript by Mrs H. E. Teves-Acly* J. H. De Boer, 1935      The Erected Dipole Model in the Adsorption of Cesium on Fluorinated Molybdenum Leonard K. Tower, 1966 Interest in power producing thermionic diodes containing both electropositive and electronegative additives has lead to studies of the structure of adsorbed layers One of the models advanced to describe this layer is that of the erected dipole in which polar molecules are erected on a surface by a strong surface electric field Published evidence for this structure in the case of some adsorbates namely barium oxide and cesium chloride is reviewed A modified version of the erected dipole model presented in this report was used to analyze published data for the system cesium on fluorinated molybdenum The results are compared with data in the literature and suggest that cesium fluoride molecules are adsorbed as erected dipoles in this system The effect of this configuration on work function for the system cesium on fluorinated molybdenum as temperature is raised is discussed Also discussed is the strength of the electric field

associated with the surface which is responsible for the erection of the dipoles      *Advances in Catalysis* ,2014-05-14

*Advances in Catalysis      Electron Emission and Adsorption Phenomena ... Translated from the Manuscript by Mrs. H.E. Teves-Acly* Jan Hendrik de BOER,H. E. TEVES-ACLY,1935      *Exoemission from Processed Solid Surfaces and Gas Adsorption* Yoshihiro Momose,2022-11-24 This book focuses on surface activity of electron emission EE Prior to protective painting a steel surface is usually grit blasted or sandblasted to remove scale and contaminants and to roughen the surface This book emphasizes that such surface treatment causes EE increasing the strength of paint adhesion Introduced here are the experimental results of thermally assisted photoelectron emission TAPE and tribo stimulated rubbing electron emission TriboEE from practical metals after different kinds of surface treatment processes A detailed description is given of how Arrhenius activation energies relating to electron transfer through the surface overlayer and also the energy levels of electrons trapped in the overlayer can be obtained and how TAPE and TriboEE data can be influenced by the chemical properties of that overlayer This book is composed of four parts I Surface treatment processes II The principle of EE analysis used for practical surfaces III Materials and methods of EE and X ray photoelectron spectroscopy XPS IV EE and XPS characteristics of practical surfaces In the last part the EE and XPS results for metals semiconductors and carbon materials are drawn from the author s own publications The book will be useful for researchers engaging in surface treatment processes of various materials      **Physical Metallurgy** R.W. Cahn,P. Haasen,1996-02-09 This is the fourth edition of a work which first appeared in 1965 The first edition had approximately one thousand pages in a single volume This latest volume has almost three thousand pages in 3 volumes which is a fair measure of the pace at which the discipline of physical metallurgy has grown in the intervening 30 years Almost all the topics previously treated are still in evidence in this version which is approximately 50% bigger than the previous edition All the chapters have been either totally rewritten by new authors or thoroughly revised and expanded either by the third edition authors alone or jointly with new co authors Three chapters on new topics have been added dealing with dry corrosion oxidation and protection of metal surfaces the dislocation theory of the mechanical behavior of intermetallic compounds and most novel a chapter on polymer science for metallurgists which analyses the conceptual mismatch between metallurgists and polymer scientists way of looking at materials Special care has been taken throughout all chapters to incorporate the latest experimental research results and theoretical insights Several thousand citations to the research and review literature are included in this edition There is a very detailed subject index as well as a comprehensive author index The original version of this book has long been regarded as the standard text in physical metallurgy and this thoroughly rewritten and updated version will retain this status      Advances in Electronics and Electron Physics ,1948-01-01 *Advances in Electronics and Electron Physics      Ions in Solution* J. Robbins,1972      Scientific and Technical Aerospace Reports ,1974      **Journal of the American Chemical Society** ,1916      Electron Emission and Absorption Phenomena ,1935      Auger Electron Spectroscopy Donald T. Hawkins,2012-12-06 Auger electron

spectroscopy is rapidly developing into the single most powerful analytical technique in basic and applied science for investigating the chemical and structural properties of solids Its explosive growth beginning in 1967 was triggered by the development of Auger analyzers capable of detecting one atom layer of material in a fraction of a second Continued growth was guaranteed firstly by the commercial availability of apparatus which combined the capabilities of scanning electron microscopy and ion mill depth profiling with Auger analysis and secondly by the increasing need to know the atomistics of many processes in fundamental research and engineering applications The expanding use of Auger analysis was accompanied by an increase in the number of publications dealing with it Because of the developing nature of Auger spectroscopy the articles have appeared in many different sources covering diverse disciplines so that it is extremely difficult to discover just what has or has not been subjected to Auger analysis In this situation a comprehensive bibliography is obviously useful to those both inside and outside the field For those in the field this bibliography should be a wonderful time saver for locating certain references in researching a particular topic or when considering various aspects of instrumentation or data analysis This bibliography not only provides the most complete listing of references pertinent to surface Auger analysis available today but it is also a basis for extrapolating from past trends to future expectations

## Decoding **Electron Emission Adsorption Phenomena**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Electron Emission Adsorption Phenomena**," a mesmerizing literary creation penned with a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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### **Electron Emission Adsorption Phenomena Introduction**

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