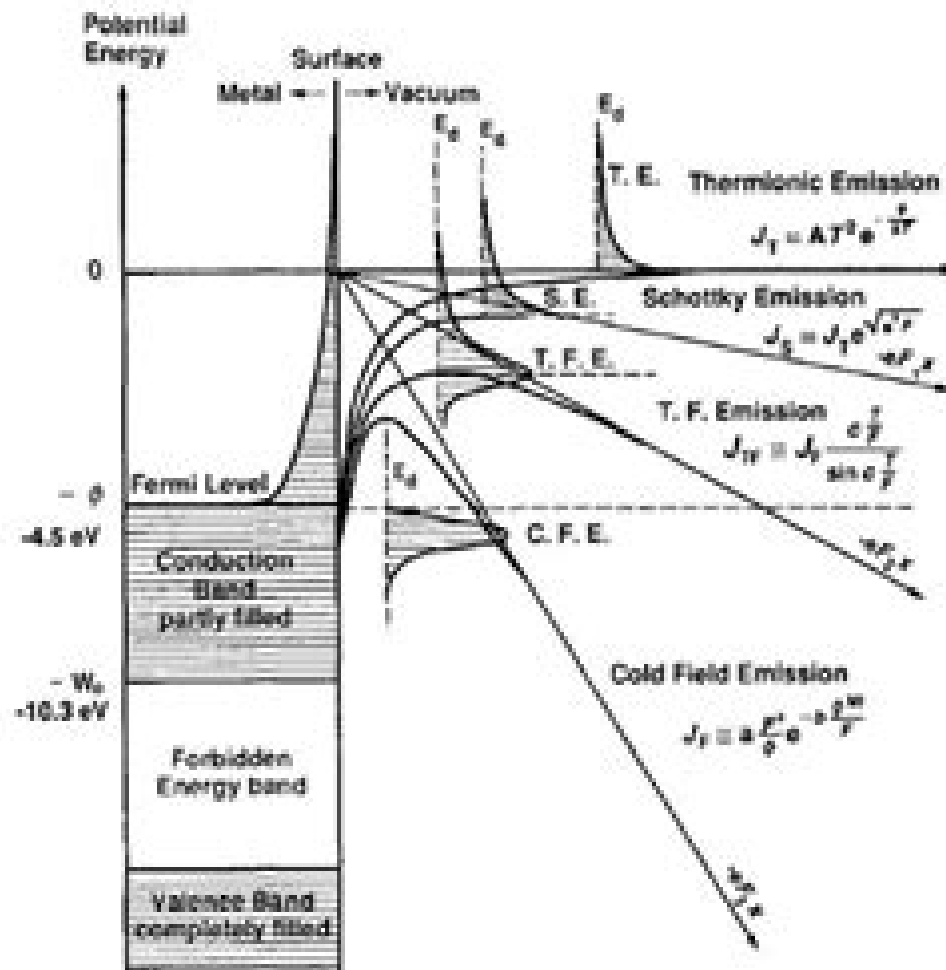


Field emission basics



F-N equation [Ref. 2]

$$J(F, \phi) = a \frac{F^2}{\phi} e^{-b \frac{\phi^{3/2}}{F}}$$

$$a = 1.54 \times 10^{-6}$$

$$b = 6.83 \times 10^{-7} f(y)$$

F	$f(y)$	When
4.5×10^7	0.61	$\phi = 4.5 \text{ eV}$
6.4×10^7	0.49	
10.5×10^7	0.25	

Field Emission In Vacuum Microelectronics

M. Cahay



Field Emission In Vacuum Microelectronics:

Field Emission in Vacuum Microelectronics George N. Fursey, 2007-12-24 Field emission is a phenomenon described by quantum mechanics Its emission capability is millions times higher than that of any other known types of electron emission Nowadays this phenomenon is experiencing a new life due to wonderful applications in the atomic resolution microscopy in electronic holography and in the vacuum micro and nanoelectronics in general The main field emission properties and some most remarkable experimental facts and applications are described in this book **Vacuum**

Microelectronics Wei Zhu, 2004-04-07 Expert coverage of vacuum microelectronics principles devices and applications The field of vacuum microelectronics has advanced so swiftly that commercial devices are being fabricated and applications are being developed in displays wireless communications spacecraft and electronics for use in harsh environments It is a rapidly evolving interdisciplinary field encompassing electrical engineering materials science vacuum engineering and applied physics This book surveys the fundamentals technology and device applications of this nascent field Editor Wei Zhu brings together some of the world s foremost experts to provide comprehensive and in depth coverage of the entire spectrum of vacuum microelectronics Topics include Field emission theory Metal and silicon field emitter arrays Novel cold cathode materials Field emission flat panel displays Cold cathode microwave devices Vacuum Microelectronics is intended for practitioners in the display microwave telecommunications and microelectronics industries and in government and university research laboratories as well as for graduate students majoring in electrical engineering materials science and physics It provides cutting edge expert coverage of the subject and serves as both an introductory text and a professional reference

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emission electron sources technologies for material and surface modifications applications and more **International Vacuum Microelectronics Conference** ,2001 **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 Papers from the 14th International Vacuum Microelectronics Conference and the 48th International Field Emission Symposium International Vacuum Microelectronics Conference. 15, 2002, Lyon,International Field Emission Symposium. 48, 2002, Lyon,2003

Introduction to Flat Panel Displays Jiun-Haw Lee,David N. Liu,Shin-Tson Wu,2008-11-20 Flat Panel Displays FPDs are a frequent feature in our daily lives used in mobile phones laptop computers desktop computer monitors and TVs Several display technologies have been developed for FPDs such as liquid crystal display LCD plasma display panel PDP light emitting diode LED organic light emitting device OLED and field emission display FED Introduction to Flat Panel Displays describes the fundamental sciences behind each display technology LCD PDP LED OLED and FED including carbon nanotubes It contains a comparative analysis of the different display technologies in which detailed overviews of each technology are linked together so as to provide a comprehensive reference for students and display engineers alike Solved

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Microelectronics Technology and Devices - SBMicro 2009 Davies William de Lima Monteiro, Olivier Bonnaud, Nilton Itiro Morimoto, 2009-08 This issue of ECS Transactions features eight invited and sixty seven regular papers on technology devices systems optoelectronics modeling and characterization all either directly or indirectly related to microelectronics The topics presented herein reveal the multidisciplinary character of this field which definitely incites the highly cooperative trace of human nature

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 Cooperative Research Associateships Tenable at the Naval Research Laboratory, Washington, 1997 *Advances in Electronics and Electron Physics*, 1992-08-17 *Advances in Electronics and Electron Physics* Cold Cathodes M. Cahay, 2001 **Nanotube Superfiber Materials** Mark Schulz, Vesselin Shanov, Zhangzhang Yin, Marc Cahay, 2019-03-12 *Nanotube Superfiber Materials Science Manufacturing Commercialization* Second Edition helps engineers and entrepreneurs understand the science behind the unique properties of nanotube fiber materials how to efficiency and safely produce them and how to transition them into commercial products Each chapter gives an account of the basic science manufacturing properties and commercial potential of a specific nanotube material form and its application New discoveries and technologies are explained along with experiences in handing off the improved materials to industry This book spans nano science nano manufacturing and the commercialization of nanotube superfiber materials As such it opens up the vast commercial potential of nanotube superfiber materials Applications for nanotube superfiber materials cut across most of the fields of engineering including spacecraft automobiles drones hyperloop tracks water and air filters infrastructure wind energy composites and medicine where nanotube materials enable development of tiny machines that can work inside our bodies to diagnose and treat disease Provides up to date information on the applications of nanotube fiber materials Explores both the manufacturing and commercialization of nanotube superfibers Sets out the processes for producing macro scale materials from carbon nanotubes Describes the unique properties of these materials

Nanofabrication Using Focused Ion and Electron Beams Ivo Utke, Stanislav Moshkalev, Phillip Russell, 2012-05 This book comprehensively reviews the achievements and potentials of a minimally invasive three dimensional and maskless surface structuring technique operating at nanometer scale by using the interaction of focused ion and electron beams FIB FEB with surfaces and injected molecules **Transducers '01 Eurosensors XV** Ernst Obermeier, 2016-05-12 The Conference is the premier international meeting for the presentation of original work addressing all aspects of the theory design fabrication assembly packaging testing and application of solid state sensors actuators MEMS and microsystems

Two-Dimensional Electronics - Prospects and Challenges Frank Schwier, 2018-09-27 This book is a printed edition of the Special Issue Two Dimensional Electronics Prospects and Challenges that was published in *Electronics* **Electric Refractory Materials** Yukinobu Kumashiro, 2000-08-24 An exploration of electric refractory materials this book covers developments of blue light emitting diodes using GaN based nitrides for laser and high temperature and frequency devices Electric Refractory Materials introduces growth and evaluation standards of films and bulk crystals with consideration of band structure surface electronic structure and lattice vibrations It also covers heat capacity and thermal conductivity irradiation properties and selective surfaces Focusing on diamond material the book examines its synthesis and

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Michael Matthew Micci,2000 **Cyber Security Intelligence and Analytics** Zheng Xu,Reza M. Parizi,Octavio
Loyola-González,Xiaolu Zhang,2021-03-10 This book presents the outcomes of the 2021 International Conference on Cyber
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