MICRODEVICES
Physics and Fabrication Technologies

Field Emission in Vacuum Microelectronics

George Fursey



Edited by

Ivor Brodie and Paul Schwoebel

Field Emission In Vacuum Microelectronics

R.A Cairns, A.D.R. Phelps

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 Microelectronics Wei Zhu, 2004-03-24 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

Vacuum Microelectronics Wei Zhu,2001-10-03 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

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 IVMC 2001 Charles E. Hunt, 2001 The proceedings of the 14th International Conference on Vacuum Microelectronics held in 2001 Topics include theory simulation and modelling of vacuum microelectronic devices and field emission electron sources technologies for material and surface modifications applications MEMS Accelerometers Mahmoud Rasras, Ibrahim (Abe) M. Elfadel, Ha Duong Ngo, 2019-05-27 Micro electro mechanical system MEMS devices are widely used for inertia pressure and ultrasound sensing applications Research on integrated MEMS technology has undergone extensive development driven by the requirements of a compact footprint low cost and increased functionality Accelerometers are among the most widely used sensors implemented in MEMS technology MEMS accelerometers are showing a growing presence in almost all industries ranging from automotive to medical A traditional MEMS accelerometer employs a proof mass suspended to springs which displaces in response to an external acceleration A single proof mass can be used for one or multi axis sensing A variety of transduction mechanisms have been used to detect the displacement They include capacitive piezoelectric thermal tunneling and optical mechanisms Capacitive accelerometers are widely used due to their DC measurement interface thermal stability reliability and low cost However they are sensitive to electromagnetic field interferences and have poor performance for high end applications e g precise attitude control for the satellite Over the past three decades steady progress has been made in the area of optical accelerometers for high performance and high sensitivity applications but several challenges are still to be tackled by researchers and engineers to fully realize opto mechanical accelerometers such as chip scale integration scaling low bandwidth etc This Special Issue on MEMS Accelerometers seeks to highlight research papers short communications and review articles that focus on Novel designs fabrication platforms characterization optimization and modeling of MEMS accelerometers Alternative transduction techniques with special emphasis on opto mechanical sensing Novel applications employing MEMS accelerometers for consumer electronics industries medicine entertainment navigation etc Multi physics design tools and methodologies including MEMS electronics co design Novel accelerometer technologies and 9DoF IMU integration Multi accelerometer platforms and their data fusion 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 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 problems as well as homework problems are provided in each chapter to help consolidate students reading as well as solutions hosted on an accompanying website Features include the classifications and specifications of display technologies as guidelines for developing a display and judging their performances principles for designing color displays with good color saturation and wide color gamut basic operating principles of thin film transistors TFTs and their applications to state of the art TFT LCD and TFT OLED an overview of FED fundamentals comprising the physics of field emission as well as FED structure and display mechanism Senior undergraduate and graduate students taking courses in engineering physics and chemistry will benefit from the systematic approach used throughout the book which will help to prepare students for entry into a display profession Display engineers research scientists and technicians working on the development of flat panel display technology will also find this book an invaluable resource Comparisons of the strengths and weaknesses of each of the display technologies will help professionals to decide which to use for their applications The Society for Information Display SID is an international society which has the aim of encouraging the development of all aspects of the field of information display Complementary to the aims of the society the Wiley SID series is intended to explain the latest developments in information display technology at a

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International Vacuum Microelectronics Conference ,2001

Advances in Electronics and Electron Physics, 1992-08-17 Advances in Electronics and Electron Physics **Issues in Vacuum Microelectronics: Volume 509** Wei Zhu, 1998-08-21 The 31 papers about half of the symposium s presentations were selected to provide a representative sampling of the present status of materials used in vacuum microelectronics They range across all aspects of electron field emission from theory and physical mechanisms to device structure but many focus on the fabrication characterization and modeling of electron emissive materials The sections cover field emitter arrays and applications carbon and wide bandgap cathodes and other cathode materials Reproduced from typescripts Annotation copyrighted by Book News Inc Portland OR 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 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 Field Emission Electronics Nikolay Egorov, Evgeny Sheshin, 2017-06-01 This book is dedicated to field emission electronics a promising field at the interface between classic vacuum electronics and nanotechnology In addition to theoretical models it includes detailed descriptions of experimental and research techniques and production technologies for different types of field emitters based on various construction principles It particularly focuses on research into and production of field cathodes and electron guns using recently developed nanomaterials and carbon nanotubes Further it discusses the applications of field emission cathodes in new technologies such as light sources Student Posters (General) - 216th ECS Meeting V. Subramanian, 2010-02 The flat screens microwave and X ray devices papers included in this issue of ECS Transactions were originally presented in the symposium General Student Poster Session held during the 216th meeting of The Electrochemical Society in Vienna Austria from October 4 to 9 2009

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 characterization as well as its electrical optical and conductive properties The book also discusses the use of silicon carbide boron compounds and other material used in electronic and light emitting devices 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

Micropropulsion for Small Spacecraft 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 Security Intelligence and Analytics CSIA 2021 an international conference dedicated to promoting novel theoretical and applied research advances in the interdisciplinary field of cyber security particularly focusing on threat intelligence analytics and countering cybercrime The conference provides a forum for presenting and

discussing innovative ideas cutting edge research findings and novel techniques methods and applications on all aspects of cyber security intelligence and analytics Due to COVID 19 Authors Keynote Speakers and PC committees will attend the conference online **Generation and Application of High Power Microwaves** R.A Cairns, A.D.R. Phelps, 2020-08-18 Written at the graduate level Generation and Application of High Power Microwaves discusses the basic physics of the generation of microwave and radiofrequency waves in the megawatt power range and the application of these ideas to a range of devices such as klystrons gyrotrons and free electron lasers The book also contains chapters covering the transmission of the power through waveguides and the problems associated with mode conversion in transmission lines The main application area covered is the heating and current drive in tokamaks and other devices for research into controlled nuclear fusion Other applications of high power microwave technology are not neglected and among those discussed are multiple charged ion and soft x ray sources electron spin resonance spectroscopy advanced materials processing millimeter wave radar and supercolliders

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