Woodhead Publishing Series in Electronic and Optical Materials

MEMS for automotive and aerospace applications

Edited by Michael Kraft and Neil M. White

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Mems For Automotive And Aerospace Applications Woodhead Publishing Series In Electronic And Optical Materials

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Mems For Automotive And Aerospace Applications Woodhead Publishing Series In Electronic And Optical Materials:

Mems for Automotive and Aerospace Applications Michael Kraft,Neil M White,2013-01-02 MEMS for automotive and aerospace applications reviews the use of Micro Electro Mechanical Systems MEMS in developing solutions to the unique challenges presented by the automotive and aerospace industries Part one explores MEMS for a variety of automotive applications The role of MEMS in passenger safety and comfort sensors for automotive vehicle stability control applications and automotive tire pressure monitoring systems are considered along with pressure and flow sensors for engine management and RF MEMS for automotive radar sensors Part two then goes on to explore MEMS for aerospace applications including devices for active drag reduction in aerospace applications inertial navigation and structural health monitoring systems and thrusters for nano and pico satellites A selection of case studies are used to explore MEMS for harsh environment sensors in aerospace applications before the book concludes by considering the use of MEMS in space exploration and exploitation With its distinguished editors and international team of expert contributors MEMS for automotive and aerospace applications is a key tool for MEMS manufacturers and all scientists engineers and academics working on MEMS and intelligent systems for transportation Chapters consider the role of MEMS in a number of automotive applications including passenger safety and comfort vehicle stability and control MEMS for aerospace applications are also discussed including active drag reduction inertial navigation and structural health monitoring systems Presents a number of case studies exploring MEMS for harsh environment sensors in aerospace **Smart Sensors and MEMS** S Nihtianov,A. Luque,2018-02-27 Smart Sensors and MEMS Intelligent Devices and Microsystems for Industrial Applications Second Edition highlights new important developments in the field including the latest on magnetic sensors temperature sensors and microreaction chambers The book outlines the industrial applications for smart sensors covering direct interface circuits for sensors capacitive sensors for displacement measurement in the sub nanometer range integrated inductive displacement sensors for harsh industrial environments advanced silicon radiation detectors in the vacuum ultraviolet VUV and extreme ultraviolet EUV spectral range among other topics New sections include discussions on magnetic and temperature sensors and the industrial applications of smart micro electro mechanical systems MEMS The book is an invaluable reference for academics materials scientists and electrical engineers working in the microelectronics sensors and micromechanics industry In addition engineers looking for industrial sensing monitoring and automation solutions will find this a comprehensive source of information Contains new chapters that address key applications such as magnetic sensors microreaction chambers and temperature sensors Provides an in depth information on a wide array of industrial applications for smart sensors and smart MEMS Presents the only book to discuss both smart sensors and MEMS for industrial applications **Metallic Films for Electronic, Optical and Magnetic Applications** Katayun Barmak,Kevin Coffey,2014-02-13 Metallic films play an

important role in modern technologies such as integrated circuits information storage displays sensors and coatings Metallic Films for Electronic Optical and Magnetic Applications reviews the structure processing and properties of metallic films Part one explores the structure of metallic films using characterization methods such as x ray diffraction and transmission electron microscopy This part also encompasses the processing of metallic films including structure formation during deposition and post deposition reactions and phase transformations Chapters in part two focus on the properties of metallic films including mechanical electrical magnetic optical and thermal properties Metallic Films for Electronic Optical and Magnetic Applications is a technical resource for electronics components manufacturers scientists and engineers working in the semiconductor industry product developers of sensors displays and other optoelectronic devices and academics working in the field Explores the structure of metallic films using characterization methods such as x ray diffraction and transmission electron microscopy Discusses processing of metallic films including structure formation during deposition and post deposition reactions and phase transformations Focuses on the properties of metallic films including mechanical electrical magnetic optical and thermal properties Optical Thin Films and Coatings Angela Piegari,François Flory,2013-08-31 Optical coatings including mirrors anti reflection coatings beam splitters and filters are an integral part of most modern optical systems Optical thin films and coatings provides an overview of thin film materials the properties design and manufacture of optical coatings and their use across a variety of application areas Part one explores the design and manufacture of optical coatings Part two highlights unconventional features of optical thin films including scattering properties of random structures in thin films optical properties of thin film materials at short wavelengths thermal properties and colour effects Part three focusses on novel materials for optical thin films and coatings and includes chapters on organic optical coatings surface multiplasmonics and optical thin films containing quantum dots Finally applications of optical coatings including laser components solar cells displays and lighting and architectural and automotive glass are reviewed in part four Optical thin films and coatings is a technical resource for researchers and engineers working with optical thin films and coatings professionals in the security automotive space and other industries requiring an understanding of these topics and academics interested in the field An overview of the materials properties design and manufacture of thin films Special attention is given to the unconventional features and novel materials of optical thin films Reviews applications of optical coatings including laser components solar cells glasing displays and lighting *Handbook of Mems for Wireless and Mobile Applications* Deepak Uttamchandani,2013-08-31 The increasing demand for mobile and wireless sensing necessitates the use of highly integrated technology featuring small size low weight high performance and low cost micro electro mechanical systems MEMS can meet this need The Handbook of MEMS for wireless and mobile applications provides a comprehensive overview of radio frequency RF MEMS technologies and explores the use of these technologies over a wide range of application areas Part one provides an introduction to the use of RF MEMS as an enabling technology for wireless

applications Chapters review RF MEMS technology and applications as a whole before moving on to describe specific technologies for wireless applications including passive components phase shifters and antennas Packaging and reliability of RF MEMS is also discussed Chapters in part two focus on wireless techniques and applications of wireless MEMS including biomedical applications such as implantable MEMS intraocular pressure sensors and wireless drug delivery Further chapters highlight the use of RF MEMS for automotive radar the monitoring of telecommunications reliability using wireless MEMS and the use of optical MEMS displays in portable electronics With its distinguished editor and international team of expert authors the Handbook of MEMS for wireless and mobile applications is a technical resource for MEMS manufacturers the electronics industry and scientists engineers and academics working on MEMS and wireless systems Reviews the use of radio frequency RF MEMS as an enabling technology for wireless applications Discusses wireless techniques and applications of wireless MEMS including biomedical applications Describes monitoring structures and the environment with wireless MEMS **Waste Electrical and Electronic Equipment (WEEE) Handbook** Vannessa Goodship,Ab Stevels,Jaco Huisman,2012-08-30 Electrical and electronic waste is a growing problem as volumes are increasing fast Rapid product innovation and replacement especially in information and communication technologies ICT combined with the migration from analog to digital technologies and to flat screen televisions and monitors has resulted in some electronic products quickly reaching the end of their life The EU directive on waste electrical and electronic equipment WEEE aims to minimise WEEE by putting organizational and financial responsibility on producers and distributors for collection treatment recycling and recovery of WEEE Therefore all stakeholders need to be well informed about their WEEE responsibilities and options While focussing on the EU this book draws lessons for policy and practice from all over the world Part one introduces the reader to legislation and initiatives to manage WEEE Part two discusses technologies for the refurbishment treatment and recycling of waste electronics Part three focuses on electronic products that present particular challenges for recyclers Part four explores sustainable design of electronics and supply chains Part five discusses national and regional WEEE management schemes and part six looks at corporate WEEE management strategies With an authoritative collection of chapters from an international team of authors Waste electrical and electronic equipment WEEE handbook is designed to be used as a reference by policy makers producers and treatment operators in both the developed and developing world Draws lessons for waste electrical and electronic equipment WEEE policy and practice from around the world Discusses legislation and initiatives to manage WEEE including global e waste initiatives EU legislation relating to electronic waste and eco efficiency evaluation of WEEE take back systems Sections cover technologies for refurbishment treatment and recycling of waste sustainable design of electronics and supply chains national and regional waste management schemes and corporate WEEE management strategies *Fundamentals and Applications of Nanophotonics* Joseph W. Haus,2016-01-09 Fundamentals and Applications of Nanophotonics includes a comprehensive discussion of the field of nanophotonics including key enabling

technologies that have the potential to drive economic growth and impact numerous application domains such as ICT the environment healthcare military transport manufacturing and energy This book gives readers the theoretical underpinnings needed to understand the latest advances in the field After an introduction to the area chapters two and three cover the essential topics of electrodynamics quantum mechanics and computation as they relate to nanophotonics Subsequent chapters explore materials for nanophotonics including nanoparticles photonic crystals nanosilicon nanocarbon III V and II VI semiconductors In addition fabrication and characterization techniques are addressed along with the importance of plasmonics and the applications of nanophotonics in devices such as lasers LEDs and photodetectors Covers electrodynamics quantum mechanics and computation as these relate to nanophotonics Reviews materials fabrication and characterization techniques for nanophotonics Describes applications of the technology such as lasers LEDs and photodetectors Graphene Viera Skakalova,Alan B. Kaiser,2014-02-16 Graphene Properties Preparation Characterisation and Devices reviews the preparation and properties of this exciting material Graphene is a single atom thick sheet of carbon with properties such as the ability to conduct light and electrons which could make it potentially suitable for a variety of devices and applications including electronics sensors and photonics Chapters in part one explore the preparation of including epitaxial growth of graphene on silicon carbide chemical vapor deposition CVD growth of graphene films chemically derived graphene and graphene produced by electrochemical exfoliation Part two focuses on the characterization of graphene using techniques including transmission electron microscopy TEM scanning tunneling microscopy STM and Raman spectroscopy These chapters also discuss photoemission of low dimensional carbon systems Finally chapters in part three discuss electronic transport properties of graphene and graphene devices This part highlights electronic transport in bilayer graphene single charge transport and the effect of adsorbents on electronic transport in graphene It also explores graphene spintronics and nano electro mechanics NEMS Graphene is a comprehensive resource for academics materials scientists and electrical engineers working in the microelectronics and optoelectronics industries Explores the graphene preparation techniques including epitaxial growth on silicon carbide chemical vapor deposition CVD chemical derivation and electrochemical exfoliation Focuses on the characterization of graphene using transmission electron microscopy TEM scanning tunneling microscopy STM and Raman spectroscopy A comprehensive resource for academics materials scientists and electrical engineers Photodetectors ,2015-10-24 Photodetectors Materials Devices and Applications discusses the devices that convert light to electrical signals key components in communication computation and imaging systems In recent years there has been significant improvement in photodetector performance and this important book reviews some of the key advances in the field Part one covers materials detector types and devices and includes discussion of silicon photonics detectors based on reduced dimensional charge systems carbon nanotubes graphene nanowires low temperature grown gallium arsenide plasmonic Si photomultiplier tubes and organic photodetectors while part two focuses on important applications of

photodetectors including microwave photonics communications high speed single photon detection THz detection resonant cavity enhanced photodetection photo capacitors and imaging Reviews materials detector types and devices Addresses fabrication techniques and the advantages and limitations and different types of photodetector Considers a range of application for this important technology Includes discussions of silicon photonics detectors based on reduced dimensional charge systems carbon nanotubes graphene nanowires and more Silicon-On-Insulator (SOI) Technology O. Kononchuk,B.-Y. Nguyen,2014-06-19 Silicon On Insulator SOI Technology Manufacture and Applications covers SOI transistors and circuits manufacture and reliability The book also looks at applications such as memory power devices and photonics The book is divided into two parts part one covers SOI materials and manufacture while part two covers SOI devices and applications The book begins with chapters that introduce techniques for manufacturing SOI wafer technology the electrical properties of advanced SOI materials and modeling short channel SOI semiconductor transistors Both partially depleted and fully depleted SOI technologies are considered Chapters 6 and 7 concern junctionless and fin on oxide field effect transistors The challenges of variability and electrostatic discharge in CMOS devices are also addressed Part two covers recent and established technologies These include SOI transistors for radio frequency applications SOI CMOS circuits for ultralow power applications and improving device performance by using 3D integration of SOI integrated circuits Finally chapters 13 and 14 consider SOI technology for photonic integrated circuits and for micro electromechanical systems and nano electromechanical sensors The extensive coverage provided by Silicon On Insulator SOI Technology makes the book a central resource for those working in the semiconductor industry for circuit design engineers and for academics It is also important for electrical engineers in the automotive and consumer electronics sectors Covers SOI transistors and circuits as well as manufacturing processes and reliability Looks at applications such as memory power devices and photonics **Laser Spectroscopy for Sensing** Matthieu Baudelet,2014-02-15 Laser spectroscopy is a valuable tool for sensing and chemical analysis Developments in lasers detectors and mathematical analytical tools have led to improvements in the sensitivity and selectivity of spectroscopic techniques and extended their fields of application Laser Spectroscopy for Sensing examines these advances and how laser spectroscopy can be used in a diverse range of industrial medical and environmental applications Part one reviews basic concepts of atomic and molecular processes and presents the fundamentals of laser technology for controlling the spectral and temporal aspects of laser excitation In addition it explains the selectivity sensitivity and stability of the measurements the construction of databases and the automation of data analysis by machine learning Part two explores laser spectroscopy techniques including cavity based absorption spectroscopy and the use of photo acoustic spectroscopy to acquire absorption spectra of gases and condensed media These chapters discuss imaging methods using laser induced fluorescence and phosphorescence spectroscopies before focusing on light detection and ranging photothermal spectroscopy and terahertz spectroscopy Part three covers a variety of applications of these

techniques particularly the detection of chemical biological and explosive threats as well as their use in medicine and forensic science Finally the book examines spectroscopic analysis of industrial materials and their applications in nuclear research and industry The text provides readers with a broad overview of the techniques and applications of laser spectroscopy for sensing It is of great interest to laser scientists and engineers as well as professionals using lasers for medical applications environmental applications military applications and material processing Presents the fundamentals of laser technology for controlling the spectral and temporal aspects of laser excitation Explores laser spectroscopy techniques including cavity based absorption spectroscopy and the use of photo acoustic spectroscopy to acquire absorption spectra of gases and condensed media Considers spectroscopic analysis of industrial materials and their applications in nuclear research and industry **Sensor Technologies for Civil Infrastructures, Volume 1** Jerome P. Lynch,Hoon Sohn,Ming L. Wang,2014-04-26 Sensors are used for civil infrastructure performance assessment and health monitoring and have evolved significantly through developments in materials and methodologies Sensor Technologies for Civil Infrastructure Volume I provides an overview of sensor hardware and its use in data collection The first chapters provide an introduction to sensing for structural performance assessment and health monitoring and an overview of commonly used sensors and their data acquisition systems Further chapters address different types of sensor including piezoelectric transducers fiber optic sensors acoustic emission sensors and electromagnetic sensors and the use of these sensors for assessing and monitoring civil infrastructures Developments in technologies applied to civil infrastructure performance assessment are also discussed including radar technology micro electro mechanical systems MEMS and nanotechnology Sensor Technologies for Civil Infrastructure provides a standard reference for structural and civil engineers electronics engineers and academics with an interest in the field Describes sensing hardware and data collection covering a variety of sensors Examines fiber optic systems acoustic emission piezoelectric sensors electromagnetic sensors ultrasonic methods and radar and millimeter wave technology Covers strain gauges micro electro mechanical systems MEMS multifunctional materials and nanotechnology for sensing and vision based sensing and lasers **Laser Growth and Processing of Photonic Devices** Nikolaos A Vainos,2012-07-10 The use of lasers in the processing of electronic and photonic material is becoming increasingly widespread with technological advances reducing costs and increasing both the quality and range of novel devices which can be produced Laser growth and processing of photonic devices is the first book to review this increasingly important field Part one investigates laser induced growth of materials and surface structures with pulsed laser deposition techniques the formation of nanocones and the fabrication of periodic photonic microstructures explored in detail Laser induced three dimensional micro and nano structuring are the focus of part two Exploration of multiphoton lithography processing and fabrication is followed by consideration of laser based micro and nano fabrication laser induced soft matter organization and microstructuring and laser assisted polymer joining methods The book concludes in part three with an investigation into

laser fabrication and manipulation of photonic structures and devices Laser seeding and thermal processing of glass with nanoscale resolution laser induced refractive index manipulation and the thermal writing of photonic devices in glass and polymers are all considered With its distinguished editor and international team of expert contributors Laser growth and processing of photonic devices is an essential tool for all materials scientists engineers and researchers in the microelectronics industry The first book to review the increasingly important field of laser growth and processing of photonic devices Investigates laser induced growth of materials and surface structures pulsed laser deposition techniques the formation of nanocones and the fabrication of periodic photonic microstructures Examines laser induced three dimensional micro and nano structuring and concludes with an investigation into laser fabrication and manipulation of photonic structures and devices Materials Characterization Using Nondestructive Evaluation (NDE) Methods Gerhard Huebschen,Iris Altpeter,Ralf Tschuncky,Hans-Georg Herrmann,2016-03-23 Materials Characterization Using Nondestructive Evaluation NDE Methods discusses NDT methods and how they are highly desirable for both long term monitoring and short term assessment of materials providing crucial early warning that the fatigue life of a material has elapsed thus helping to prevent service failures Materials Characterization Using Nondestructive Evaluation NDE Methods gives an overview of established and new NDT techniques for the characterization of materials with a focus on materials used in the automotive aerospace power plants and infrastructure construction industries Each chapter focuses on a different NDT technique and indicates the potential of the method by selected examples of applications Methods covered include scanning and transmission electron microscopy X ray microtomography and diffraction ultrasonic electromagnetic microwave and hybrid techniques The authors review both the determination of microstructure properties including phase content and grain size and the determination of mechanical properties such as hardness toughness yield strength texture and residual stress Gives an overview of established and new NDT techniques including scanning and transmission electron microscopy X ray microtomography and diffraction ultrasonic electromagnetic microwave and hybrid techniques Reviews the determination of microstructural and mechanical properties Focuses on materials used in the automotive aerospace power plants and infrastructure construction industries Serves as a highly desirable resource for both long term monitoring and short term assessment of materials Machine-to-machine (M2M) Communications Carles Anton-Haro,Mischa Dohler,2014-12-23 Part one of Machine to Machine M2M Communications covers machine to machine systems architecture and components Part two assesses performance management techniques for M2M communications Part three looks at M2M applications services and standardization Machine to machine communications refers to autonomous communication between devices or machines This book serves as a key resource in M2M which is set to grow significantly and is expected to generate a huge amount of additional data traffic and new revenue streams underpinning key areas of the economy such as the smart grid networked homes healthcare and transportation Examines the opportunities in M2M for businesses Analyses the optimisation and

development of M2M communications Chapters cover aspects of access scheduling mobility and security protocols within M2M communications Rare Earth and Transition Metal Doping of Semiconductor Materials Volkmar Dierolf,Ian Ferguson,John M Zavada,2016-01-23 Rare Earth and Transition Metal Doping of Semiconductor Material explores traditional semiconductor devices that are based on control of the electron s electric charge This book looks at the semiconductor materials used for spintronics applications in particular focusing on wide band gap semiconductors doped with transition metals and rare earths These materials are of particular commercial interest because their spin can be controlled at room temperature a clear opposition to the most previous research on Gallium Arsenide which allowed for control of spins at supercold temperatures Part One of the book explains the theory of magnetism in semiconductors while Part Two covers the growth of semiconductors for spintronics Finally Part Three looks at the characterization and properties of semiconductors for spintronics with Part Four exploring the devices and the future direction of spintronics Examines materials which are of commercial interest for producing smaller faster and more power efficient computers and other devices Analyzes the theory behind magnetism in semiconductors and the growth of semiconductors for spintronics Details the properties of semiconductors for spintronics **Handbook of Organic Materials for Optical and (Opto)Electronic Devices** Oksana Ostroverkhova,2013-08-31 Small molecules and conjugated polymers the two main types of organic materials used for optoelectronic and photonic devices can be used in a number of applications including organic light emitting diodes photovoltaic devices photorefractive devices and waveguides Organic materials are attractive due to their low cost the possibility of their deposition from solution onto large area substrates and the ability to tailor their properties The Handbook of organic materials for optical and opto electronic devices provides an overview of the properties of organic optoelectronic and nonlinear optical materials and explains how these materials can be used across a range of applications Parts one and two explore the materials used for organic optoelectronics and nonlinear optics their properties and methods of their characterization illustrated by physical studies Part three moves on to discuss the applications of optoelectronic and nonlinear optical organic materials in devices and includes chapters on organic solar cells electronic memory devices and electronic chemical sensors electro optic devices The Handbook of organic materials for optical and opto electronic devices is a technical resource for physicists chemists electrical engineers and materials scientists involved in research and development of organic semiconductor and nonlinear optical materials and devices Comprehensively examines the properties of organic optoelectronic and nonlinear optical materials Discusses their applications in different devices including solar cells LEDs and electronic memory devices An essential technical resource for physicists chemists electrical engineers and materials scientists **Laser Additive Manufacturing** Milan Brandt,2016-09-01 Laser Additive Manufacturing Materials Design Technologies and Applications provides the latest information on this highly efficient method of layer based manufacturing using metals plastics or composite materials The technology is particularly suitable for the production of

complex components with high precision for a range of industries including aerospace automotive and medical engineering This book provides a comprehensive review of the technology and its range of applications Part One looks at materials suitable for laser AM processes with Part Two discussing design strategies for AM Parts Three and Four review the most widely used AM technique powder bed fusion PBF and discuss other AM techniques such as directed energy deposition sheet lamination jetting techniques extrusion techniques and vat photopolymerization The final section explores the range of applications of laser AM Provides a comprehensive one volume overview of advances in laser additive manufacturing Presents detailed coverage of the latest techniques used for laser additive manufacturing Reviews both established and emerging areas of application **Industrial Tomography** Mi Wang,2015-03-30 Industrial Tomography Systems and Applications thoroughly explores the important tomographic techniques of industrial tomography also discussing image reconstruction systems and applications The text presents complex processes including the way three dimensional imaging is used to create multiple cross sections and how computer software helps monitor flows filtering mixing drying processes and chemical reactions inside vessels and pipelines Readers will find a comprehensive discussion on the ways tomography systems can be used to optimize the performance of a wide variety of industrial processes Provides a comprehensive discussion on the different formats of tomography Includes an excellent overview of image reconstruction using a wide range of applications Presents a comprehensive discussion of tomography systems and their application in a wide variety of industrial processes **Advances in Chemical Mechanical Planarization (CMP)** Babu Suryadevara,2016-01-09 Advances in Chemical Mechanical Planarization CMP provides the latest information on a mainstream process that is critical for high volume high yield semiconductor manufacturing and even more so as device dimensions continue to shrink The technology has grown to encompass the removal and planarization of multiple metal and dielectric materials and layers both at the device and the metallization levels using different tools and parameters requiring improvements in the control of topography and defects This important book offers a systematic review of fundamentals and advances in the area Part One covers CMP of dielectric and metal films with chapters focusing on the use of particular techniques and processes and on CMP of particular various materials including ultra low k materials and high mobility channel materials and ending with a chapter reviewing the environmental impacts of CMP processes Part Two addresses consumables and process control for improved CMP and includes chapters on the preparation and characterization of slurry diamond disc pad conditioning the use of FTIR spectroscopy for characterization of surface processes and approaches for defection characterization mitigation and reduction Considers techniques and processes for CMP of dielectric and metal films Includes chapters devoted to CMP for particular materials Addresses consumables and process control for improved CMP

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Mems For Automotive And Aerospace Applications Woodhead Publishing Series In Electronic And Optical Materials :

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