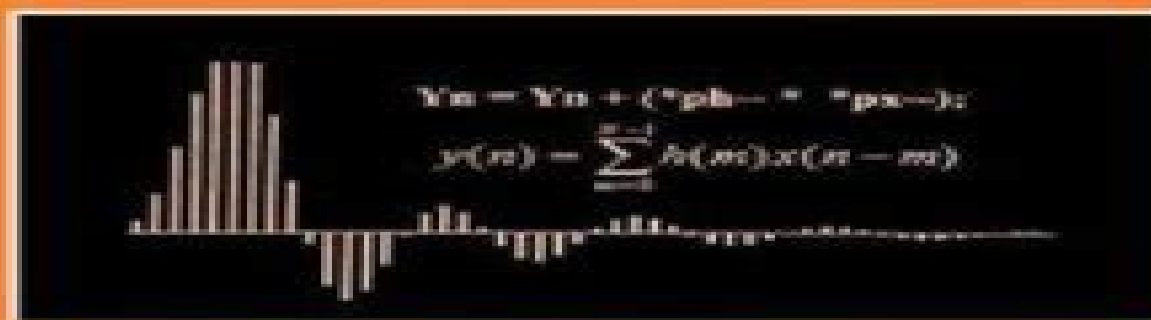


DIGITAL FILTERS AND SIGNAL PROCESSING IN ELECTRONIC ENGINEERING

Theory, Applications, Architecture, Code



S. M. BOZIC and R. J. CHANCE

**Digital Filters And Signal Processing In Electronic
Engineering Theory Applications Architecture Code
Woodhead Publishing Series In Electronic And Optical
Materials**

Jonathan R. Lawrence, David Waugh



Digital Filters And Signal Processing In Electronic Engineering Theory Applications Architecture Code Woodhead Publishing Series In Electronic And Optical Materials:

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 [Reliability Characterisation of Electrical and Electronic Systems](#) ,2014-12-24 This book takes a holistic approach to reliability engineering for electrical and electronic systems by looking at the failure mechanisms testing methods failure analysis characterisation techniques and prediction models that can be used to increase reliability for a range of devices The text describes the reliability behavior of electrical and electronic systems It takes an empirical scientific approach to reliability engineering to facilitate a greater understanding of operating conditions failure mechanisms and the need for testing for a more realistic characterisation After introducing the fundamentals and background to reliability theory the text moves on to describe the methods of reliability analysis and characterisation across a wide range of applications Takes a holistic approach to reliability engineering Looks at the failure mechanisms testing methods failure analysis characterisation techniques and prediction models that can be used to increase reliability Facilitates a greater understanding of operating conditions failure mechanisms and the need for testing for a more realistic characterisation **Handbook of Laser Welding Technologies** S Katayama, 2013-06-30 Laser welding is a rapidly developing and versatile technology which has found increasing applications in industry and manufacturing It allows the precision welding of small and hard to reach areas and is particularly suitable for operation under computer or robotic control The Handbook of laser welding technologies reviews the latest developments in the field and how they can be used across a variety of applications Part one provides an introduction to the fundamentals of laser welding before moving on to explore developments in established technologies including CO2 laser welding disk laser welding and laser micro welding

technology Part two highlights laser welding technologies for various materials including aluminium and titanium alloys plastics and glass Part three focuses on developments in emerging laser welding technologies with chapters on the applications of robotics in laser welding and developments in the modelling and simulation of laser and hybrid laser welding Finally part four explores the applications of laser welding in the automotive railway and shipbuilding industries The Handbook of laser welding technologies is a technical resource for researchers and engineers using laser welding technologies professionals requiring an understanding of laser welding techniques and academics interested in the field Provides an introduction to the fundamentals of laser welding including characteristics welding defects and evolution of laser welding Discusses developments in a number of techniques including disk conduction and laser micro welding Focusses on technologies for particular materials such as light metal alloys plastics and glass

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

Smart Sensors and MEMS S Nihtianov, A. Luque, 2014-03-24 Smart sensors and MEMS can include a variety of devices and systems that have a high level of functionality They do this either by integrating multiple sensing and actuating modes into one device or else by integrating sensing and actuating with information processing analog to digital conversion and memory functions Part one 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 and advanced

optical incremental sensors encoders and interferometers among other topics The second part of the book describes the industrial applications of smart micro electro mechanical systems MEMS Some of the topics covered in this section include microfabrication technologies used for creating smart devices for industrial applications microactuators dynamic behaviour of smart MEMS in industrial applications MEMS integrating motion and displacement sensors MEMS print heads for industrial printing Photovoltaic and fuel cells in power MEMS for smart energy management and radio frequency RF MEMS for smart communication microsystems Smart sensors and MEMS is invaluable reference for academics materials scientists and electrical engineers working in the microelectronics sensors and micromechanics industry and engineers looking for industrial sensing monitoring and automation solutions Outlines industrial applications for smart sensors and smart MEMS Covers smart sensors including capacitive inductive resistive and magnetic sensors and sensors to detect radiation and measure temperature Covers smart MEMS including power MEMS radio frequency MEMS optical MEMS inertial MEMS and microreaction chambers

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

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 glazing displays and lighting

Handbook of Flexible Organic Electronics Stergios Logothetidis, 2014-12-03 Organic flexible electronics represent a highly promising technology that will provide increased functionality and the potential to meet future challenges of scalability flexibility low power consumption light weight and reduced cost They will find new applications because they can be used with curved surfaces and incorporated in to a number of products that could not support traditional electronics The book covers device physics processing and manufacturing technologies circuits and packaging metrology and diagnostic tools architectures and systems engineering Part one covers the production properties and characterisation of flexible organic materials and part two looks at applications for flexible organic devices Reviews the properties and production of various flexible organic materials Describes the integration technologies of flexible organic electronics and their manufacturing methods Looks at the application of flexible organic materials in smart integrated systems and circuits chemical sensors microfluidic devices organic non volatile memory devices and printed batteries and other power storage devices

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

Ultrasonic Transducers K Nakamura, 2012-08-23 Ultrasonic transducers are key components in sensors for distance flow and level measurement as well as in power biomedical and other applications of ultrasound Ultrasonic transducers reviews recent research in the

design and application of this important technology Part one provides an overview of materials and design of ultrasonic transducers Piezoelectricity and basic configurations are explored in depth along with electromagnetic acoustic transducers and the use of ceramics thin film and single crystals in ultrasonic transducers Part two goes on to investigate modelling and characterisation with performance modelling electrical evaluation laser Doppler vibrometry and optical visualisation all considered in detail Applications of ultrasonic transducers are the focus of part three beginning with a review of surface acoustic wave devices and air borne ultrasound transducers and going on to consider ultrasonic transducers for use at high temperature and in flaw detection systems power biomedical and micro scale ultrasonics therapeutic ultrasound devices piezoelectric and fibre optic hydrophones and ultrasonic motors are also described With its distinguished editor and expert team of international contributors Ultrasonic transducers is an authoritative review of key developments for engineers and materials scientists involved in this area of technology as well as in its applications in sectors as diverse as electronics wireless communication and medical diagnostics Reviews recent research in the design and application of ultrasonic transducers Provides an overview of the materials and design of ultrasonic transducers with an in depth exploration of piezoelectricity and basic configurations Investigates modelling and characterisation applications of ultrasonic transducers and ultrasonic transducers for use at high temperature and in flaw detection systems

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

Nanolithography M Feldman, 2014-02-13 Integrated circuits and devices fabricated using the techniques developed for integrated circuits have steadily gotten smaller more complex and more powerful The

rate of shrinking is astonishing some components are now just a few dozen atoms wide This book attempts to answer the questions What comes next and How do we get there Nanolithography outlines the present state of the art in lithographic techniques including optical projection in both deep and extreme ultraviolet electron and ion beams and imprinting Special attention is paid to related issues such as the resists used in lithography the masks or lack thereof the metrology needed for nano features modeling and the limitations caused by feature edge roughness In addition emerging technologies are described including the directed assembly of wafer features nanostructures and devices nano photonics and nano fluidics This book is intended as a guide to the researcher new to this field reading related journals or facing the complexities of a technical conference Its goal is to give enough background information to enable such a researcher to understand and appreciate new developments in nanolithography and to go on to make advances of his her own Outlines the current state of the art in alternative nanolithography technologies in order to cope with the future reduction in size of semiconductor chips to nanoscale dimensions Covers lithographic techniques including optical projection extreme ultraviolet EUV nanoimprint electron beam and ion beam lithography Describes the emerging applications of nanolithography in nanoelectronics nanophotonics and microfluidics 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 **Optical**

Biomimetics Maryanne Large,2012-09-24 Optical biomimetics the study of natural systems to inspire novel solutions to problems in optical technologies has attracted growing interest Optical biomimetics reviews key research in this area

focusing on the techniques and approaches used to characterise and mimic naturally occurring optical effects Beginning with an overview of natural photonic structures Optical biomimetics goes on to discuss optical applications of biomolecules such as retinylidene and bacteriorhodopsin polarisation effects in natural photonic structures and their applications and biomimetic nanostructures for anti reflection AR devices Control of iridescence in natural photonic structures is explored through the case of butterfly scales alongside a consideration of nanostructure fabrication using natural synthesis The investigation into silk optical materials is followed by a final discussion of the control of florescence in natural photonic structures With its distinguished editor and international team of expert contributors Optical biomimetics is a valuable guide for scientists and engineers in both academia and industry who are already studying biomimetics and a fascinating introduction for those who wish to move into this interesting new field Reviews key research in optical biomimetics focusing on the techniques and approaches used to characterise and mimic naturally occurring optical effects Discusses optical applications of biomolecules such as retinylidene and bacteriorhodopsin Explores the control of iridescence in natural photonic structures through the case of butterfly scales

Quantum Optics with Semiconductor Nanostructures Frank Jahnke, 2012-07-16 An understanding of the interaction between light and matter on a quantum level is of fundamental interest and has many applications in optical technologies The quantum nature of the interaction has recently attracted great attention for applications of semiconductor nanostructures in quantum information processing Quantum optics with semiconductor nanostructures is a key guide to the theory experimental realisation and future potential of semiconductor nanostructures in the exploration of quantum optics Part one provides a comprehensive overview of single quantum dot systems beginning with a look at resonance fluorescence emission Quantum optics with single quantum dots in photonic crystal and micro cavities are explored in detail before part two goes on to review nanolasers with quantum dot emitters Light matter interaction in semiconductor nanostructures including photon statistics and photoluminescence is the focus of part three whilst part four explores all solid state quantum optics crystal nanobeam cavities and quantum dot microcavity systems Finally part five investigates ultrafast phenomena including femtosecond quantum optics and coherent optoelectronics with quantum dots With its distinguished editor and international team of expert contributors Quantum optics with semiconductor nanostructures is an essential guide for all those involved with the research development manufacture and use of semiconductors nanodevices lasers and optical components as well as scientists researchers and students A key guide to the theory experimental realisation and future potential of semiconductor nanostructures in the exploration of quantum optics Chapters provide a comprehensive overview of single quantum dot systems nanolasers with quantum dot emitters and light matter interaction in semiconductor nanostructures Explores all solid state quantum optics crystal nanobeam cavities and quantum dot microcavity systems and investigates ultrafast phenomena

Power Ultrasonics Juan A. Gallego-Juarez, Karl F. Graff, 2014-11-14 The industrial interest in ultrasonic processing has revived

during recent years because ultrasonic technology may represent a flexible green alternative for more energy efficient processes A challenge in the application of high intensity ultrasound to industrial processing is the design and development of specific power ultrasonic systems for large scale operation In the area of ultrasonic processing in fluid and multiphase media the development of a new family of power generators with extensive radiating surfaces has significantly contributed to the implementation at industrial scale of several applications in sectors such as the food industry environment and manufacturing Part one covers fundamentals of nonlinear propagation of ultrasonic waves in fluids and solids It also discusses the materials and designs of power ultrasonic transducers and devices Part two looks at applications of high power ultrasound in materials engineering and mechanical engineering food processing technology environmental monitoring and remediation and industrial and chemical processing including pharmaceuticals medicine and biotechnology Covers the fundamentals of nonlinear propagation of ultrasonic waves in fluids and solids Discusses the materials and designs of power ultrasonic transducers and devices Considers state of the art power sonic applications across a wide range of industries

Semiconductor Lasers Alexei Baranov, Eric Tournié, 2013-04-23 Semiconductor lasers have important applications in numerous fields including engineering biology chemistry and medicine They form the backbone of the optical telecommunications infrastructure supporting the internet and are used in information storage devices bar code scanners laser printers and many other everyday products Semiconductor lasers Fundamentals and applications is a comprehensive review of this vital technology Part one introduces the fundamentals of semiconductor lasers beginning with key principles before going on to discuss photonic crystal lasers high power semiconductor lasers and laser beams and the use of semiconductor lasers in ultrafast pulse generation Part two then reviews applications of visible and near infrared emitting lasers Nonpolar and semipolar GaN based lasers advanced self assembled InAs quantum dot lasers and vertical cavity surface emitting lasers are all considered in addition to semiconductor disk and hybrid silicon lasers Finally applications of mid and far infrared emitting lasers are the focus of part three Topics covered include GaSb based type I quantum well diode lasers interband cascade and terahertz quantum cascade lasers whispering gallery mode lasers and tunable mid infrared laser absorption spectroscopy With its distinguished editors and international team of expert contributors Semiconductor lasers is a valuable guide for all those involved in the design operation and application of these important lasers including laser and telecommunications engineers scientists working in biology and chemistry medical practitioners and academics working in this field Provides a comprehensive review of semiconductor lasers and their applications in engineering biology chemistry and medicine Discusses photonic crystal lasers high power semiconductor lasers and laser beams and the use of semiconductor lasers in ultrafast pulse generation Reviews applications of visible and near infrared emitting lasers and mid and far infrared emitting lasers

Waste Electrical and Electronic Equipment (WEEE) Handbook Vanessa 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

Handbook of Terahertz Technology for Imaging, Sensing and Communications D Saeedkia, 2013-01-16 The recent development of easy to use sources and detectors of terahertz radiation has enabled growth in applications of terahertz Thz imaging and sensing This vastly adaptable technology offers great potential across a wide range of areas and the Handbook of terahertz technology for imaging sensing and communications explores the fundamental principles important developments and key applications emerging in this exciting field Part one provides an authoritative introduction to the fundamentals of terahertz technology for imaging sensing and communications The generation detection and emission of waves are discussed alongside fundamental aspects of surface plasmon polaritons terahertz near field imaging and sensing room temperature terahertz detectors and terahertz wireless communications Part two goes on to discuss recent progress and such novel techniques in terahertz technology as terahertz bio sensing array imagers and resonant field enhancement of terahertz waves Fiber coupled time domain spectroscopy systems THz TDS terahertz photomixer systems terahertz nanotechnology frequency metrology and semiconductor material development for terahertz applications are all reviewed Finally applications of terahertz technology are explored in part three including applications in tomographic imaging and material spectroscopy art conservation and the aerospace wood products semiconductor and pharmaceutical industries With its distinguished editor and international team of expert

contributors the Handbook of terahertz technology for imaging sensing and communications is an authoritative guide to the field for laser engineers manufacturers of sensing devices and imaging equipment security companies the military professionals working in process monitoring and academics interested in this field Examines techniques for the generation and detection of terahertz waves Discusses material development for terahertz applications Explores applications in tomographic imaging art conservation and the pharmaceutical and aerospace industries Laser Surface Engineering Jonathan R. Lawrence, David Waugh, 2014-10-02 Lasers can alter the surface composition and properties of materials in a highly controllable way which makes them efficient and cost effective tools for surface engineering This book provides an overview of the different techniques the laser material interactions and the advantages and disadvantages for different applications Part one looks at laser heat treatment part two covers laser additive manufacturing such as laser enhanced electroplating and part three discusses laser micromachining structuring and surface modification Chemical and biological applications of laser surface engineering are explored in part four including ways to improve the surface corrosion properties of metals Provides an overview of thermal surface treatments using lasers including the treatment of steels light metal alloys polycrystalline silicon and technical ceramics Addresses the development of new metallic materials innovations in laser cladding and direct metal deposition and the fabrication of tuneable micro and nano scale surface structures Chapters also cover laser structuring surface modification and the chemical and biological applications of laser surface engineering

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