

# Thin Film Technology Maisse

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**Modern Vacuum Physics** - Austin Chambers 2004-08-30

Modern Vacuum Physics presents the principles and practices of vacuum science and technology along with a number of applications in research and industrial production. The first half of the book builds a foundation in gases and vapors under rarefied conditions, The second half presents examples of the analysis of representative systems and describe

*Preparation of Thin Films* - Joy George 1992-02-26

"Preparation of Thin Films provides a comprehensive account of various deposition techniques for the preparation of thin films of elements, compounds, alloys, ceramics, and semiconductors - emphasizing inorganic compound thin films and discussing high vacuum and chemical deposition methods used for preparing high temperature superconducting oxide thin films. "

**Materials Science of Thin Films** - Milton Ohring 2002

This is the first book that can be considered a textbook on thin film science, complete with exercises at the end of each chapter. Ohring has contributed many highly regarded reference books to the AP list, including Reliability and Failure of Electronic Materials and the Engineering Science of Thin Films. The knowledge base is intended for science and engineering students in advanced undergraduate or first-year graduate level courses on thin films and scientists and engineers who are entering or require an overview of the field. Since 1992, when

the book was first published, the field of thin films has expanded tremendously, especially with regard to technological applications. The second edition will bring the book up-to-date with regard to these advances. Most chapters have been greatly updated, and several new chapters have been added.

**Vacuum Technology, Thin Films, and Sputtering** - R. V. Stuart 2012-12-02

Vacuum technology is advancing and expanding so rapidly that a major difficulty for most companies in the field is finding qualified technicians needed for expansion and as replacements. The only recourse for most companies is to hire capable, though untrained, people to train them in-house. One of the problems in this course of action is that it repeatedly draws on the valuable time of experienced personnel to explain fundamental concepts to a trainee. \* Provides a variety of exercises in eac

*Handbook of Thin Film Technology. Edited by Leon I. Maisse and Reinhard Glang* - Leon I. MAISSEL (and GLANG (Reinhard)) 1970

*Smart Materials* - Mel Schwartz 2008-11-20

Explores State-of-the-Art Work from the World's Foremost Scientists, Engineers, Educators, and Practitioners in the Field Why use smart materials? Since most smart materials do not add mass, engineers can

endow structures with built-in responses to a myriad of contingencies. In their various forms, these materials can adapt to their environments by c

The MEMS Handbook - Mohamed Gad-el-Hak 2001-09-27

The revolution is well underway. Our understanding and utilization of microelectromechanical systems (MEMS) are growing at an explosive rate with a worldwide market approaching billions of dollars. In time, microdevices will fill the niches of our lives as pervasively as electronics do right now. But if these miniature devices are to fulfill their mammoth potential, today's engineers need a thorough grounding in the underlying physics, modeling techniques, fabrication methods, and materials of MEMS. The MEMS Handbook delivers all of this and more. Its team of authors-unsurpassed in their experience and standing in the scientific community- explore various aspects of MEMS: their design, fabrication, and applications as well as the physical modeling of their operations. Designed for maximum readability without compromising rigor, it provides a current and essential overview of this fledgling discipline.

**Laser Induced Damage in Optical Materials** - 1986

Handbook of Semiconductor Interconnection Technology - Geraldine Cugin Shwartz 2006-02-22

First introduced about a decade ago, the first edition of the Handbook of Semiconductor Interconnection Technology became widely popular for its thorough, integrated treatment of interconnect technologies and its forward-looking perspective. The field has grown tremendously in the interim and many of the "likely directions" outlined in the first ed

**Handbook of Thin Films, Five-Volume Set** - Hari Singh Nalwa 2001-10-29

This five-volume handbook focuses on processing techniques, characterization methods, and physical properties of thin films (thin layers of insulating, conducting, or semiconductor material). The editor has composed five separate, thematic volumes on thin films of metals, semimetals, glasses, ceramics, alloys, organics, diamonds, graphites, porous materials, noncrystalline solids, supramolecules, polymers, copolymers, biopolymers, composites, blends, activated carbons,

intermetallics, chalcogenides, dyes, pigments, nanostructured materials, biomaterials, inorganic/polymer composites, organoceramics, metallocenes, disordered systems, liquid crystals, quasicrystals, and layered structures. Thin films is a field of the utmost importance in today's materials science, electrical engineering and applied solid state physics; with both research and industrial applications in microelectronics, computer manufacturing, and physical devices. Advanced, high-performance computers, high-definition TV, digital camcorders, sensitive broadband imaging systems, flat-panel displays, robotic systems, and medical electronics and diagnostics are but a few examples of miniaturized device technologies that depend the utilization of thin film materials. The Handbook of Thin Films Materials is a comprehensive reference focusing on processing techniques, characterization methods, and physical properties of these thin film materials.

Encyclopedia of Optical and Photonic Engineering (Print) - Five Volume Set - Craig Hoffman 2015-09-22

The first edition of the Encyclopedia of Optical and Photonic Engineering provided a valuable reference concerning devices or systems that generate, transmit, measure, or detect light, and to a lesser degree, the basic interaction of light and matter. This Second Edition not only reflects the changes in optical and photonic engineering that have occurred since the first edition was published, but also: Boasts a wealth of new material, expanding the encyclopedia's length by 25 percent Contains extensive updates, with significant revisions made throughout the text Features contributions from engineers and scientists leading the fields of optics and photonics today With the addition of a second editor, the Encyclopedia of Optical and Photonic Engineering, Second Edition offers a balanced and up-to-date look at the fundamentals of a diverse portfolio of technologies and discoveries in areas ranging from x-ray optics to photon entanglement and beyond. This edition's release corresponds nicely with the United Nations General Assembly's declaration of 2015 as the International Year of Light, working in tandem to raise awareness about light's important role in the modern world. Also

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*Handbook of Thin Film Technology* - Leon I. Maissel 1970

**Thin Film Processes** - John L. Vossen 2012-12-02

Remarkable advances have been made in recent years in the science and technology of thin film processes for deposition and etching. It is the purpose of this book to bring together tutorial reviews of selected filmdeposition and etching processes from a process viewpoint. Emphasis is placed on the practical use of the processes to provide working guidelines for their implementation, a guide to the literature, and an overview of each process.

**Laser Induced Damage in Optical Materials, 1986** - Harold Earl Bennett 1988

Thin Film Technology Handbook - Aicha Elshabini 1998

The most comprehensive source available on the preparation, characterization, and emerging applications of thin film. This book features extensive new advances applied in multichip modules (MCMs), and covers the basic principles and applications of thin film deposition techniques for practical use. It provides and develops design guidelines to realize multilayer structures in microcircuits, thus addressing a critical and rapidly growing area.

*Capacitive and Resistive Electronic Components* - D.S. Campbell 1994-05-01

This text, though primarily concerned with the properties and structure of resistors and capacitors, also provides a comprehensive general

introduction to the electronic properties of materials used in the manufacture of electronic components. Coverage includes the band theory of materials and the conduction mechanisms in metals, dielectrics and other structures. The manufacture, structure and properties of fixed and variable resistors and capacitors are discussed in detail. Also included are non-linear components such as NTC and PTC thermistors, strain gauges, pressure transducers, varistors and sensors. The text concludes with a chapter on the quality and reliability of electronic devices with practical values of field reliability performance quoted. Surface Modification and Mechanisms - George E. Totten 2004-04-30 Leading readers through an extensive compilation of surface modification reactions and processes for specific tribological results, this reference compiles detailed studies on various residual stresses, reaction processes and mechanisms, heat treatment methods, plasma-based techniques, and more, for a solid understanding of surface structural chang

Ceramic Interconnect Technology Handbook - Fred D. Barlow, III 2018-10-03

Ceramics were among the first materials used as substrates for mass-produced electronics, and they remain an important class of packaging and interconnect material today. Most available information about ceramic electronics is either outdated or focused on their materials science characteristics. The Ceramic Interconnect Technology Handbook goes beyond the traditional approach by first surveying the unique properties of ceramics and then discussing design, processing, fabrication, and integration, as well as packaging and interconnect technologies. Collecting contributions from an outstanding panel of experts, this book offers an up-to-date overview of modern ceramic electronics, from design and material selection to manufacturing and implementation. Beginning with an overview of the development, properties, advantages, and applications of ceramics, coverage spans electrical design, testing, simulation, thermomechanical design, screen printing, multilayer ceramics, photo-defined and photo-imaged films, copper interconnects for ceramic substrates, and integrated passive

devices in ceramic substrates. It also offers a detailed review of the surface, thermal, mechanical, and electrical properties of various ceramics as well as the processing of high- and low-temperature cofired ceramic (HTCC and LTCC) substrates. Opening new vistas and avenues of advancement, the Ceramic Interconnect Technology Handbook is the only source for comprehensive discussion and analysis of nearly every facet of ceramic interconnect technology and applications.

**The Materials Science of Thin Films** - Milton Ohring 1992

Prepared as a textbook complete with problems after each chapter, specifically intended for classroom use in universities.

**Thin Film Device Applications** - Kasturi Chopra 2012-12-06

Two-dimensional materials created ab initio by the process of condensation of atoms, molecules, or ions, called thin films, have unique properties significantly different from the corresponding bulk materials as a result of their physical dimensions, geometry, nonequilibrium microstructure, and metallurgy. Further, these characteristic features of thin films can be drastically modified and tailored to obtain the desired and required physical characteristics. These features form the basis of development of a host of extraordinary active and passive thin film device applications in the last two decades. On the one extreme, these applications are in the submicron dimensions in such areas as very large scale integration (VLSI), Josephson junction quantum interference devices, magnetic bubbles, and integrated optics. On the other extreme, large-area thin films are being used as selective coatings for solar thermal conversion, solar cells for photovoltaic conversion, and protection and passivating layers. Indeed, one would be hard pressed to find many sophisticated modern optical and electronic devices which do not use thin films in one way or the other. With the impetus provided by industrial applications, the science and technology of thin films have undergone revolutionary development and even today continue to be recognized globally as frontier areas of R&D work. Major technical developments in any field of science and technology are invariably accompanied by an explosion of published literature in the form of scientific publications, reviews, and books.

Coatings Tribology - Braham Prakash 2021-03-12

The last few decades have seen rapid development in the field of surface engineering and its applications in almost all industrial sectors. Tribological coatings, which are an important aspect of surface engineering, are today applied on machine component surfaces for a diverse range of moving machine components to control (mostly to minimize) friction and wear in order to conserve energy and materials. This reprint book is a compilation of 11 research papers contributed by experts in the field of surface engineering and tribology. These papers have dealt with the synthesis of various types of coatings, characterization and applications under different operating conditions. It is hoped that this reprint book will be of interest, not only to researchers, but also to practicing engineers and technologists in the industry.

Surface Modeling Engineering - Ram Kossowsky 1989-07-31

These volumes present the general practitioners in engineering with a comprehensive discussion of technological surfaces, their interactions with environments, and the various modification techniques available to improve their performance. In each subject, applications to metals, ceramics, and polymers are emphasized. The interactions with the environment are described: corrosion (chemical), friction and wear (mechanical), and bioreactivity (physiological). Reviews of major modification schemes such as chemical vapor deposition, physical vapor deposition, laser beam interactions, chemical infusion, and ion implantation are presented. In summary, reviews of applications of the modification techniques to optimize the performances of structural components, tools, electronic devices, and implantable medical devices, manufactured out of metals, ceramic, and polymers, are described.

Thin film materials technology - Kiyotaka Wasa 2004-09-24

This title contains rich historical coverage of the basics and new experimental and technological information about ceramic thin film and large-area functional coating. Included are principles and examples of making thin-film materials and devices.

Thin Film Processes II - Werner Kern 2012-12-02

This sequel to the 1978 classic, Thin Film Processes, gives a clear,

practical exposition of important thin film deposition and etching processes that have not yet been adequately reviewed. It discusses selected processes in tutorial overviews with implementation guide lines and an introduction to the literature. Though edited to stand alone, when taken together, Thin Film Processes II and its predecessor present a thorough grounding in modern thin film techniques. Provides an all-new sequel to the 1978 classic, Thin Film Processes Introduces new topics, and several key topics presented in the original volume are updated Emphasizes practical applications of major thin film deposition and etching processes Helps readers find the appropriate technology for a particular application

**The Foundations of Vacuum Coating Technology** - Donald M. Mattox 2018-08-21

The Foundations of Vacuum Coating Technology, Second Edition, is a revised and expanded version of the first edition, which was published in 2003. The book reviews the histories of the various vacuum coating technologies and expands on the history of the enabling technologies of vacuum technology, plasma technology, power supplies, and low-pressure plasma-enhanced chemical vapor deposition. The melding of these technologies has resulted in new processes and products that have greatly expanded the application of vacuum coatings for use in our everyday lives. The book is unique in that it makes extensive reference to the patent literature (mostly US) and how it relates to the history of vacuum coating. The book includes a Historical Timeline of Vacuum Coating Technology and a Historical Timeline of Vacuum/Plasma Technology, as well as a Glossary of Terms used in the vacuum coating and surface engineering industries. History and detailed descriptions of Vacuum Deposition Technologies Review of Enabling Technologies and their importance to current applications Extensively referenced text Patents are referenced as part of the history Historical Timelines for Vacuum Coating Technology and Vacuum/Plasma Technology Glossary of Terms for vacuum coating

Physics of Nonmetallic Thin Films - C. H. S. Dupuy 2012-12-06  
For several years now the intense development in the field of

microelectronics, the interest in coating materials, and activity in integrated optics have produced many advances in the field of thin solid film~ The research activity has become so intensive and so broad that it is necessary to divide the field into metallic and non metallic thin films. A summer school in the area of non metallic thin films appeared to be a very fruitful concept and, hence, in October, 1973, A.S.I.M.S. made a proposal to N.A.T.O to hold this second summer school in Corsica in September 1974. The basic idea behind this summer school was essentially to stress and synthesize physical properties and structure of non metallic thin films. The main reason for this was the feeling that many laboratories are very specialized and that few engage in both physical and structural analysis of these films. The program included a large section on' physical studies: electrical (transport, interface effects, switching), mechanical and optical. There was also a large section o~characterization, crystal structure, chemical composition (stoichiometry is always a difficult problem), bonding and electronic structure.

**Solar Power** - Radu Rugescu 2012-02-15

A wide variety of detail regarding genuine and proprietary research from distinguished authors is presented, ranging from new means of evaluation of the local solar irradiance to the manufacturing technology of photovoltaic cells. Also included is the topic of biotechnology based on solar energy and electricity generation onboard space vehicles in an optimised manner with possible transfer to the Earth. The graphical material supports the presentation, transforming the reading into a pleasant and instructive labor for any interested specialist or student.

**Handbook of sol-gel science and technology. 2. Characterization and properties of sol-gel materials and products** - Rui M. Almeida 2004

**Microelectronic Materials and Processes** - R.A. Levy 2012-12-06

The primary thrust of very large scale integration (VLSI) is the miniaturization of devices to increase packing density, achieve higher speed, and consume lower power. The fabrication of integrated circuits

containing in excess of four million components per chip with design rules in the submicron range has now been made possible by the introduction of innovative circuit designs and the development of new microelectronic materials and processes. This book addresses the latter challenge by assessing the current status of the science and technology associated with the production of VLSI silicon circuits. It represents the cumulative effort of experts from academia and industry who have come together to blend their expertise into a tutorial overview and cohesive update of this rapidly expanding field. A balance of fundamental and applied contributions cover the basics of microelectronics materials and process engineering. Subjects in materials science include silicon, silicides, resists, dielectrics, and interconnect metallization. Subjects in process engineering include crystal growth, epitaxy, oxidation, thin film deposition, fine-line lithography, dry etching, ion implantation, and diffusion. Other related topics such as process simulation, defects phenomena, and diagnostic techniques are also included. This book is the result of a NATO-sponsored Advanced Study Institute (ASI) held in Castelvecchio Pascoli, Italy. Invited speakers at this institute provided manuscripts which were edited, updated, and integrated with other contributions solicited from non-participants to this ASI.

*Handbook of Thin Film Technology* - Hartmut Frey 2015-05-06

"Handbook of Thin Film Technology" covers all aspects of coatings preparation, characterization and applications. Different deposition techniques based on vacuum and plasma processes are presented. Methods of surface and thin film analysis including coating thickness, structural, optical, electrical, mechanical and magnetic properties of films are detailed described. The several applications of thin coatings and a special chapter focusing on nanoparticle-based films can be found in this handbook. A complete reference for students and professionals interested in the science and technology of thin films.

**Handbook of Deposition Technologies for Films and Coatings** -

Peter M. Martin 2009-12-01

This 3e, edited by Peter M. Martin, PNNL 2005 Inventor of the Year, is an extensive update of the many improvements in deposition

technologies, mechanisms, and applications. This long-awaited revision includes updated and new chapters on atomic layer deposition, cathodic arc deposition, sculpted thin films, polymer thin films and emerging technologies. Extensive material was added throughout the book, especially in the areas concerned with plasma-assisted vapor deposition processes and metallurgical coating applications. \* Explains in depth the many recent i

**Handbook of Lead-Free Solder Technology for Microelectronic Assemblies** - Karl J. Puttlitz 2004-02-27

This reference provides a complete discussion of the conversion from standard lead-tin to lead-free solder microelectronic assemblies for low-end and high-end applications. Written by more than 45 world-class researchers and practitioners, the book discusses general reliability issues concerning microelectronic assemblies, as well as factors specific to the tin-rich replacement alloys commonly utilized in lead-free solders. It provides real-world manufacturing accounts of the introduction of reduced-lead and lead-free technology and discusses the functionality and cost effectiveness of alternative solder alloys and non-solder alternatives replacing lead-tin solders in microelectronics.

*Thin Film Solar Cells* - K. L. Chopra 2013-11-11

"You, O Sun, are the eye of the world You are the soul of all embodied beings You are the source of all creatures You are the discipline of all engaged in work" - Translated from Mahabharata 3rd Century BC Today, energy is the lifeline and status symbol of "civilized" societies. All nations have therefore embarked upon Research and Development programs of varying magnitudes to explore and effectively utilize renewable sources of energy. Albeit a low-grade energy with large temporal and spatial variations, solar energy is abundant, cheap, clean, and renewable, and thus presents a very attractive alternative source. The direct conversion of solar energy to electricity (photovoltaic effect) via devices called solar cells has already become an established frontier area of science and technology. Born out of necessity for remote area applications, the first commercially manufactured solar cells - single-crystal silicon and thin film CdS/Cu<sub>2</sub>S - were available well over 20 years ago. Indeed, all space

vehicles today are powered by silicon solar cells. But large-scale terrestrial applications of solar cells still await major breakthroughs in terms of discovering new and radical concepts in solar cell device structures, utilizing relatively more abundant, cheap, and even exotic materials, and inventing simpler and less energy intensive fabrication processes. No doubt, this extraordinary challenge in R/D has led to a virtual explosion of activities in the field of photovoltaics in the last several years.

Springer Handbook of Electronic and Photonic Materials - Safa Kasap 2017-10-04

The second, updated edition of this essential reference book provides a wealth of detail on a wide range of electronic and photonic materials, starting from fundamentals and building up to advanced topics and applications. Its extensive coverage, with clear illustrations and applications, carefully selected chapter sequencing and logical flow, makes it very different from other electronic materials handbooks. It has been written by professionals in the field and instructors who teach the subject at a university or in corporate laboratories. The Springer Handbook of Electronic and Photonic Materials, second edition, includes practical applications used as examples, details of experimental techniques, useful tables that summarize equations, and, most importantly, properties of various materials, as well as an extensive glossary. Along with significant updates to the content and the references, the second edition includes a number of new chapters such as those covering novel materials and selected applications. This handbook is a valuable resource for graduate students, researchers and practicing professionals working in the area of electronic, optoelectronic and photonic materials.

The Physical Properties of Thin Metal Films - G.P. Zhigal'skii 2003-07-10  
Thin films of conducting materials, such as metals, alloys and semiconductors are currently in use in many areas of science and technology, particularly in modern integrated circuit microelectronics that require high quality thin films for the manufacture of connection layers, resistors and ohmic contacts. These conducting films are also

important for fundamental investigations in physics, radio-physics and physical chemistry. Physical Properties of Thin Metal Films provides a clear presentation of the complex physical properties particular to thin conducting films and includes the necessary theory, confirming experiments and applications. The volume will be an invaluable reference for graduates, engineers and scientists working in the electronics industry and fields of pure and applied science.

**Coatings Tribology** - Kenneth Holmberg 2009-03-18

The surface coating field is a rapidly developing area of science and technology that offers new methods and techniques to control friction and wear. New coating types are continually being developed and the potential applications in different industrial fields are ever growing, ranging from machine components and consumer products to medical instruments and prostheses. This book provides an extensive review of the latest technology in the field, addressing techniques such as physical and chemical vapour deposition, the tribological properties of coatings, and coating characterization and performance evaluation techniques. Eleven different cases are examined in close detail to demonstrate the improvement of tribological properties and a guide to selecting coatings is also provided. This second edition is still the only monograph in the field to give a holistic view of the subject and presents all aspects, including test and performance data as well as insights into mechanisms and interactions, thus providing the level of understanding vital for the practical application of coatings. \* An extensive review of the latest developments in the field of surface coatings \* Presents both theory and practical applications \* Includes a guide for selecting coatings

**Roll-to-Roll Vacuum Deposition of Barrier Coatings** - Charles A. Bishop 2015-08-28

It is intended that the book will be a practical guide to provide any reader with the basic information to help them understand what is necessary in order to produce a good barrier coated web or to improve the quality of any existing barrier product. After providing an introduction, where the terminology is outlined and some of the science is given (keeping the mathematics to a minimum), including barrier

testing methods, the vacuum deposition process will be described. In theory a thin layer of metal or glass-like material should be enough to convert any polymer film into a perfect barrier material. The reality is that all barrier coatings have their performance limited by the defects in the coating. This book looks at the whole process from the source materials through to the post deposition handling of the coated material. This holistic view of the vacuum coating process provides a description of the common sources of defects and includes the possible methods of limiting the defects. This enables readers to decide where their development efforts and money can best be used to improve the barrier performance of their own process or materials. The 2nd edition contains at least 20% new material including additional barrier testing techniques that have been developed and testing and cleaning equipment brought to market since the 1st edition was published in 2010. The topic of adhesion is covered in more detail and there is a section on the Hansen Solubility Parameter which is a method of predicting the solubility of gases or liquids in materials.

**Biochip Technology** - Jing Cheng 2003-09-02

Biochip technology has experienced explosive growth in recent years and Biochip technology describes the basic manufacturing and fabrication processes and the current range of applications of these chips. Top scientists from the biochip industry and related areas explain the diverse applications of biochips in gene sequencing, expression monitoring,

disease diagnosis, tumor examination, ligand assay and drug discovery.  
An Introduction to Thin Films - Leon I. Maissel 1973

Thin Film Fundamentals - A. Goswami 1996

Even Though Thin Solid Films Have Found Tremendous Applications In Electronic, Optical And Other Industries The Basic Concepts About Them Have Often Been Taken Similar To Those Of The Bulk Materials From Which Films Are Prepared And These Need Not Be So. This Book Is Intended To Serve As A Guide To Students, Beginners And Research Workers Interested In This Field. The Basic Science Behind Thin Solid Films Has Been Described With Special Reference To Nucleation, Structures Of Films, Their Growth Process, Phase Transitions, Behaviour Of Films Under Electrical, Electromagnetic And Other Fields With Film Thickness, Temperatures Etc. Characteristic Behaviour Of Films, Different From Bulk, Can Often Be Related To Nearly Two-Dimensional Nature Of Films And Also To The Presence Of Factors Such As Surface States, Contact Potential, High Defect Concentration, Creation Of New Energy Levels, In-Homogeneities, Discontinuities Or Gaps, Etc. Which Are More Often Less Significant In Bulk Materials. Special Techniques Used For Measuring Thin Film Properties And Also Precautions To Be Taken Have Been Given In Details. This Book Also Includes Many Useful Relations Otherwise Scattered In Literatures And Also A Good Number Of References Though Not Complete But Relevant To The Topics Discussed.