

The Foundations of Vacuum Coating Technology

A concise look at the discoveries, inventions, and people behind vacuum coating, past and present.

Donald M. Mattox



Springer

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ML Morrison



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The Foundations of Vacuum Coating Technology D. M. Mattox, 2003 Annotation applications of this technology With its many references this book provides a starting point for more in depth surveys on what has been done as well as more recent work The author draws comparisons and places the information in the proper context which is particularly helpful for the patent literature where the terminology used is often not that used by the technical community A must for materials scientists and engineers working with vacuum coating in the invention of new applications and researching patents plus of special interest to those in the semiconductors field

The Foundations of Vacuum Coating Technology Donald M. Mattox, 2014-03-12 Introduction 1 Early Vacuum Science and Technology 2 Early Electricity and Magnetism 5 Early Plasma Physics and Chemistry 7 Some Scientific and Engineering Societies and Publications 9 Patents and the U S Patent Office 10 Deposition Processes 11 Sputter Deposition 11 Thermal Evaporation 19 Arc Vapor Deposition 24 Chemical Vapor Deposition 27 Ion Plating 30 Surface Preparation 34 Summary 37 Endnotes 39 References 43 Acronyms Used in Vacuum Coating 61 Glossary of Terms for Vacuum Coating 69

The Foundations of Vacuum Coating Technology Introduction Vacuum coatings processes use a vacuum sub are combined in the same chamber at the same time to deposit the material in a hybrid process For atmospheric pressure environment and an atomic example the deposition of titanium carbonitride or molecular condensable vapor source to deposit thin films and coatings The vacuum environment is TiC_xNy or $TiCN$ may be performed using a hybrid used not only to reduce gas particle density but also hybrid process where the titanium may come from sputter to limit gaseous contamination establish partial pressure of titanium the nitrogen is from a gas and the sources of inert and reactive gases and control gas flow carbon is from acetylene vapor Alloys mixtures The vapor source may be from a solid or liquid source compounds and composite materials can be deposited physical vapor deposition PVD or from a sputter using a single source of the desired material or chemical vapor precursor chemical vapor deposition multiple sources of the constituents

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 **The Effect of UV Light and Weather** Liesl K. Massey, 2006-09-07 This extensively updated comprehensive databook was created for design and application engineers scientists and material producer technical support and research and development personnel Important weathering characteristics and material properties of plastics and elastomers are presented in discussion tabular and graphical sections It provides a ready reference for comparing materials in the same family as well as materials in different families Data are presented on 80 major plastic and elastomer materials including biodegradable or organic polymers New to this edition the resin chapters each contain textual summary information including category general description and weathering properties detailing information of the material s susceptibility or immunity to weathering including discussion of test results Extensive references are provided The resin chapter material supplier trade name product data are presented in graphical and tabular format with results normalized to SI units retaining the familiar format of the 1st edition and allowing easy comparison between materials and test conditions

Functional Coatings for Biomedical, Energy, and Environmental Applications Raj K. Arya, George D. Verros, J. Paulo Davim, 2024-10-22 Understand functional coatings and their role in three key industries of the future Functional coatings play a huge range of roles in industries from automotive to aerospace to electronic and beyond They offer protection performance enhancement corrosion resistance self cleaning properties and more Recent developments in the field have allowed for ever more precise optimization of functional coatings with the result that demand for these key tools is only likely to increase Functional Coatings for Biomedical Energy and Environmental Applications offers a comprehensive overview of these coatings and their applications in three explosively productive industries A team of expert contributors provides chapters analyzing the latest developments in this growing area of production with a particular focus on the dynamic relationship between functional coatings and their many applications The result is an interdisciplinary text which will serve as an essential resource for researchers and industry professionals worldwide Readers will also find Analysis of functional coatings for dental implants pool boilers solar cells and many more Detailed discussion of coating properties including superhydrophobicity self cleaning controlled drug release and more Key contributions to the great environmental challenges of the twenty first century This book is a must own for researchers in chemistry engineering energy materials science and more as well as for industry professionals working with coating and other aspects of research and development in biomedical energy or environmental industries **Multilayer Nanostructured Wear-Resistant Coatings for Metal-Cutting Tools**

A.A. Vereschaka, S.N. Grigoriev, V.P. Tabakov, 2025-09-23 This work focuses on the properties of multilayer nanostructured wear resistant coatings for cutting tools It provides an extensive overview of modern methods and approaches to creating wear resistant coatings for cutting tools The authors present a wealth of experimental data and offer generalized theories useful not only in the development of metal cutting tools with coatings but also in the creation of nanostructured materials

for various applications Discusses the development and operation of nanostructured coatings operating under conditions of high temperatures pressures and chemical effects Includes studies of coating properties during cutting using modern methods transmission and scanning electron microscopy Presents mathematical models that describe the process of coating deposition and the cutting process as stochastic processes for the modeling of which it is necessary to use methods of probability theory This book is intended for engineering and technical workers as well as graduate students involved in the development of research on and practical application of methods for applying wear resistant coatings

50 Years of Vacuum Coating Technology and the Growth of the Society of Vacuum Coaters Donald M. Mattox, 2007-01-01

The History of Vacuum Coating Technology D. M. Mattox, 2002

Synchrotron Radiation Instrumentation Jae-Young Choi, Seungyu Rah, 2007-02-27 The SRI2006 Proceedings features the most recent developments in present synchrotron radiation sources It also features up to date free electron lasers at photon energies from the infrared to hard X rays beamline instrumentation to transport the radiation to the experiments as well as experimental techniques to utilize it Further included are recent experimental results in synchrotron radiation sciences

Science Bulletin, 1989

Handbook of Physical Vapor Deposition (PVD) Processing D. M. Mattox, 2014-09-19 This book covers all aspects of physical vapor deposition PVD process technology from the characterizing and preparing the substrate material through deposition processing and film characterization to post deposition processing The emphasis of the book is on the aspects of the process flow that are critical to economical deposition of films that can meet the required performance specifications The book covers subjects seldom treated in the literature substrate characterization adhesion cleaning and the processing The book also covers the widely discussed subjects of vacuum technology and the fundamentals of individual deposition processes However the author uniquely relates these topics to the practical issues that arise in PVD processing such as contamination control and film growth effects which are also rarely discussed in the literature In bringing these subjects together in one book the reader can understand the interrelationship between various aspects of the film deposition processing and the resulting film properties The author draws upon his long experience with developing PVD processes and troubleshooting the processes in the manufacturing environment to provide useful hints for not only avoiding problems but also for solving problems when they arise He uses actual experiences called war stories to emphasize certain points Special formatting of the text allows a reader who is already knowledgeable in the subject to scan through a section and find discussions that are of particular interest The author has tried to make the subject index as useful as possible so that the reader can rapidly go to sections of particular interest Extensive references allow the reader to pursue subjects in greater detail if desired The book is intended to be both an introduction for those who are new to the field and a valuable resource to those already in the field The discussion of transferring technology between R D and manufacturing provided in Appendix 1 will be of special interest to the manager or engineer responsible for moving a PVD product and process from R D into production Appendix 2 has an extensive listing of

periodical publications and professional societies that relate to PVD processing The extensive Glossary of Terms and Acronyms provided in Appendix 3 will be of particular use to students and to those not fully conversant with the terminology of PVD processing or with the English language

American Book Publishing Record ,2003 **Emerging Focus on Advanced Materials** Shi Quan Liu,Min Zuo,2011-08-16 Selected peer reviewed papers from the 1st International Congress on Advanced Materials 2011 AM 2011 May 13 16 2011 Jinan China **Optical Engineering** ,2004 Publishes papers reporting on research and development in optical science and engineering and the practical applications of known optical science engineering and technology *Surface Engineering 2004--fundamentals and Applications* Soumendra Nath Basu,2005 **Journal of the Optical Society of America** ,1976 Engineering ,1880 **The British National Bibliography** Arthur James Wells,2004 **Research & Development** ,1993 **Mechatronics Engineering, Computing and Information Technology** X.D. Xu,Bin Li,Q.M. Lu,X.Y. Yan,J.L. Li,2014-05-23 Selected peer reviewed papers from the 2014 International Conference on Mechatronics Engineering and Computing Technology ICMECT 2014 April 9 10 2014 Shanghai China

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increasing the amount of airflow through the nose improving the sense of smell delivering medication and nasal rinses to the sinus cavities

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