Colour Generation And Control In Glass Glass Science And Technology 2

The Late Bronze Egyptian Garrison at Beth Shan
Optical Materials
Advances in Materials Characterization
Proceedings of the International Conference on Rare Earth Development and Applications Beijing, The People's Republic of China, September 10–14, 1985
An Introduction to the Application of Materials Science to Archaeometry and Conservation Science
IEE Conference Publication
Fluoride Glass Optical Fibres
Contemporary Nonlinear Optics
Ion Implantation
The Properties of Optical Glass
Colour Generation and Control in Glass
Second International Conference, ACII 2007, Lisbon, Portugal, September 12-14, 2007, Proceedings
Transparent Ceramics
A Collection of Papers Presented at the 77th Conference on Glass Problems, Greater Columbus Convention Center, Columbus, OH, November 7-9, 2016
Springer Handbook of Lasers and Optics
History of Nanotechnology
Advances in the Study of Ancient Technology
CRC Handbook of Laser Science and Technology Supplement 2
Archaeological Chemistry
Chemical Analysis in Cultural Heritage
New Frontiers in Rare Earth Science and Applications
Modern Methods for Analysing Archaeological and Historical Glass
Colour Generation and Control in Glass
Coatings on Glass 1998
Results of the ARCHGLASS project
Affective Computing and Intelligent Interaction
Books on Colour 1495-2015: History and Bibliography
From Mine to Microscope
PROCEEDINGS 4th International Congress on “Science and Technology for the Safeguard of Cultural Heritage in the Mediterranean Basin” VOL. II
Springer Handbook of Condensed Matter and Materials Data
Materials, Engineering, and Applications
Silica Glass and Its Application
Technological and Psychophysical Aspects
Springer Handbook of Materials Data
Electrochemistry of Glasses and Glass Melts, Including Glass Electrodes
Sensors, Chemical and Biochemical Sensors
From Prehistoric to Modern Times
The Science of Color

ROSA HARLEY

The Late Bronze Egyptian Garrison at Beth Shan Elsevier
Fluoride Glass Fiber Optics reviews the fundamental aspects of fluoride glasses. This book is divided into nine chapters. Chapter 1 discusses the wide range of fluoride glasses with an emphasis on fluorozirconate-based compositions. The structure of simple fluoride systems, such as BaF2 binary glass is elaborated in Chapter 2. The third chapter covers the intrinsic transparency of fluoride glasses from the UV to the IR, with particular emphasis on the multiphonon edge and electronic edge. The next three chapters are devoted to ultra-low loss optical fibers, reviewing methods for purifying and analyzing the fluoride glass raw materials. The sources of loss are considered in Chapter 6, while the work performed on the durability of fluoride glasses is analyzed in Chapter 7. Chapter 8 focuses on the effects of radiation on fluoride glasses. The last chapter deliberates the area of active phenomena such as doping of fluoride glasses with rare-earth elements for fluorescence and lasing, as well as frequency doubling. This publication is a good reference for students and researchers conducting work on fluoride glasses.
Optical Materials John Wiley & Sons
Provides over 1400 articles that deal with materials and techniques in art from ancient times to the present, including such media as ceramics, sculpture, metalwork, painting, works on paper, textiles, video, and computer art.
Advances in Materials Characterization John Wiley & Sons
In terms of chemical composition, silica glass is the simplest amorphous substance that has been commercially utilized in many fields of application in a number of industrial branches, thanks to its physico-chemical properties. The present volume gives a comprehensive overview on the latest developments in glass technology. The influence of genetic types of raw materials on the choice of melting technology is discussed. Phase transformations of quartz-silica glass and the influence of the impurities of melting furnaces and furnace material is examined. The quartz raw materials suitable for the manufacture of clear, opaque and synthetic silica glasses, various manufacturing processes, the physico-chemical properties of silica glasses and their utilization in technological practice are reviewed in detail. The book provides a wealth of detailed information on the properties and use of silica glass which will be of considerable interest to workers in the glass industry, including those in research and development, as well as to people in the fields of electronics, electrical engineering, communication technology, optics and the chemical, power engineering and metallurgical industries. It will also be a useful information supplement on the properties and applications of silica glass for students in technical schools and universities.
Proceedings of the International Conference on Rare Earth Development and Applications Beijing, The People's Republic of China, September 10–14, 1985 Leuven University Press
The Science of Color focuses on the principles and observations that are foundations of modern color science. Written for a general scientific audience, the book broadly covers essential topics in the interdisciplinary field of color, drawing from physics, physiology and psychology. This book comprises eight chapters and begins by tracing scientific thinking about color since the seventeenth century. This historical perspective provides an introduction to the fundamental questions in color science, by following advances as well as misconceptions over more than 300 years. The next chapters then discuss the relationship between light, the retinal image, and photoreceptors, followed by a focus on concepts such as color matching and color discrimination; color appearance and color difference specification; the physiology of color vision; the 15 mechanisms of the physics and chemistry of color; and digital color reproduction. Each chapter begins with a short outline that summarizes the organization and breadth of its material. The outlines are valuable guides to chapter structure, and worth scanning even by readers who may not care to go through a chapter from start to finish. This book will be of interest to scientists, artists, manufacturers, and students.
John Wiley & Sons
'Sensors' is the first self-contained series to deal with the whole area of sensors. It describes general aspects, technical and physical fundamentals, construction, function, applications and developments of the various types of sensors. This is the second of two volumes focusing on chemical and biochemical sensors. It includes a detailed description of biosensors which often make use of transducer properties of the basic sensors and usually have additional biological components. This volume provides a unique overview of the applications, the possibilities and limitations of sensors in comparison with conventional instrumentation in analytical chemistry. Specific facettes of applications are presented by specialists from different fields including environmental, biotechnological, medical, or chemical process control. This book is an indispensable reference work for both specialits and newcomers, researchers and developers.
An Introduction to the Application of Materials Science to Archaeometry and Conservation Science BoD – Books on Demand
New Frontiers in Rare Earth Science and Applications, Volume II documents the proceedings of the International Conference on Rare Earth Development and Applications held in Beijing on September 10-14, 1985. This compilation discusses quenching and sensitization of rare earth luminescence, magnetic properties of rare earth intermetallics, and microcapsulated rare earth-nickel hydride-forming materials. The effect of rare earth on the quality and properties of hot-rolled steel strips and role of yttrium in heavy section spheroidal graphite cast iron are also elaborated. This book likewise covers the application of scandium oxide in an electron emission material and study on the effect of rare earth elements on the yield of wheat. This publication is beneficial to researchers and scientists conducting work in the field of earth science.
IEE Conference Publication Springer Science & Business Media
The Science and Archaeology of Materials is set to become the definitive work in the archaeology of materials. Henderson's highly illustrated work is an accessible and fascinating textbook which will be essential reading for all practical archaeologists. With clear sections on a wide range of materials including ceramics, glass, metals and stone, this work examines the very foundations of

archaeological study. Anyone interested in ancient technologies, especially those involving high temperatures, kilns and furnaces will be able to follow in each chapter how raw materials are refined, transformed and shaped into objects. This description is then followed by appropriate case studies which provide a new chronological and geographical example of how scientific and archaeological aspects can and do interact. They include: *Roman pale green and highly decorated glass *17th Century glass in Britain and Europe *the effect of the introduction of the wheel on pottery technology *the technology of Celadon ceramics *early copper metallurgy in the Middle East *chemical analysis and lead isotope analysis of British Bronzes *early copper alloy metallurgy in Thailand *the chemical analysis of obsidian and its distribution *the origins of the Stonehenge bluestones This book shows how archaeology and science intersect and fe ed off each other. Modern scientific techniques have provided data which, when set within a fully integrated archaeological context, have the potential of contributing to mainstream archaeology. This holistic approach generates a range of connections which benefits both areas and will enrich archaeological study in the future.

Fluoride Glass Optical Fibres Springer Science & Business Media

Chemical Analysis provides non invasive and micro-analytical techniques for the investigation of cultural heritage materials. The tools and techniques, discussed by experts in the field, are of universal, sensitive and multi-component nature.

Contemporary Nonlinear Optics Springer Science & Business Media

Springer Handbook of Condensed Matter and Materials Data provides a concise compilation of data and functional relationships from the fields of solid-state physics and materials in this 1200 page volume. The data, encapsulated in 914 tables and 1025 illustrations, have been selected and extracted primarily from the extensive high-quality data collection Landolt-Börnstein and also from other systematic data sources and recent publications of physical and technical property data. Many chapters are authored by Landolt-Börnstein editors, including the prominent Springer Handbook editors, W. Martienssen and H. Warlimont themselves. The Handbook is designed to be useful as a desktop reference for fast and easy retrieval of essential and reliable data in the lab or office. References to more extensive data sources are also provided in the book and by interlinking to the relevant sources on the enclosed CD-ROM. Physicists, chemists and engineers engaged in fields of solid-state sciences and materials technologies in research, development and application will appreciate the ready access to the key information coherently organized within this wide-ranging Handbook. From the reviews: "...this is the most complete compilation I have ever seen... When I received the book, I immediately searched for data I never found elsewhere..., and I found them rapidly... No doubt that this book will soon be in every library and on the desk of most solid state scientists and engineers. It will never be at rest." -Physicalia Magazine

Ion Implantation Academic Press

This book constitutes the refereed proceedings of the Second International Conference on Affective Computing and Intelligent Interaction, ACII 2007, held in Lisbon, Portugal, in September 2007. The 57 revised full papers and 4 revised short papers presented together with the extended abstracts of 33 poster papers were carefully reviewed and selected from 151 submissions. The papers are organized in topical sections on affective facial expression and recognition, affective body expression and recognition, affective speech processing, affective text and dialogue processing, recognising affect using physiological measures, computational models of emotion and theoretical foundations, affective databases, annotations, tools and languages, affective sound and music processing, affective interactions: systems and applications, as well as evaluating affective systems.

The Properties of Optical Glass Elsevier

This volume presents background information on the electrochemical behaviour of glass melts and solid glasses. The text lays the foundations for a sound understanding of physicochemical redox and ion transfer processes in solid or liquid glasses and the interpretation of experimental results. Other topics discussed include: control of production processes, the field-driven ion exchange between solutions and glasses or within electrochromic thin-film systems, mechanisms responsible for glass corrosion, the concept of optical basicity, and others. Throughout, the text contains practical examples enabling readers to study the various aspects of electrochemical processes in ion-conducting materials.

Colour Generation and Control in Glass CRC Press

The characterization of materials and phenomena has historically been the principal limitation to the development in each area of science. Once what we are observing is well defined, a theoretical analysis rapidly follows. Modern theories of chemical bonding did not evolve until the methods of analytical chemistry had progressed to a point where the bulk stoichiometry of chemical compounds was firmly established. The great progress made during this century in understanding chemistry has followed directly from the development of an analytical chemistry based on the Dalton assumption of multiple proportions. It has only become apparent in recent years that the extension of our understanding of materials hinges on their non-stoichiometric nature. The world of non-Daltonian chemistry is very poorly understood at present because of our lack of ability to precisely characterize it. The emergence of materials science has only just occurred with our recognition of effects, which have been thought previously to be minor variations from ideality, as the principal phenomena controlling properties. The next step in the historical evolution of materials science must be the development of tools to characterize the often subtle phenomena which determine properties of materials. The various discussions of instrumental techniques presented in this book are excellent summaries for the state-of-the-art of materials characterization at this rather critical stage of materials science. The application of the tools described here, and those yet to be developed, holds the key to the development of this infant into a mature science.

Second International Conference, ACII 2007, Lisbon, Portugal, September 12-14, 2007, Proceedings Colour Generation and Control in GlassColour Generation and Control in GlassColour Generation and Control in Glass

Ion implantation presents a continuously evolving technology. While the benefits of ion implantation are well recognized for many commercial endeavors, there have been recent developments in this field. Improvements in equipment, understanding of beam-solid interactions, applications to new materials, improved characterization techniques, and more recent developments to use implantation for nanostructure formation point to new directions for ion implantation and are presented in this book.

Transparent Ceramics Springer Science & Business Media

From the reviews: "The book should be acquired by all libraries with an interest in glass science and applications...the title will endure for many years as the standard work on the properties of optical glass." Optical Systems Engineering

A Collection of Papers Presented at the 77th Conference on Glass Problems, Greater Columbus Convention Center, Columbus, OH, November 7-9, 2016 Elsevier

Contemporary Nonlinear Optics discusses the different activities in the field of nonlinear optics. The book is comprised of 10 chapters. Chapter 1 presents a description of the field of nonlinear guided-wave optics. Chapter 2 surveys a new branch of nonlinear optics under the heading optical solitons. Chapter 3 reviews recent progress in the field of optical phase conjugation. Chapter 4 discusses ultrafast nonlinear optics, a field that is growing rapidly with the ability of generating and controlling femtosecond optical pulses. Chapter 5 examines a branch of nonlinear optics that may be termed nonlinear quantum optics. Chapter 6 reviews the new field of photorefractive adaptive neural networks. Chapter 7 presents a discussion of recent successes in the development of nonlinear optical media based on organic materials. Chapter 8 reviews the field of nonlinear optics in quantum confined structures. Chapter 9 reviews the field of nonlinear laser spectroscopy, with emphasis on advances made during the 1980s. Finally, Chapter 10 reviews the field of nonlinear optical dynamics by considering nonlinear optical systems that exhibit temporal, spatial, or spatio-temporal instabilities. This book is a valuable source for physicists and other scientists interested in optical systems and neural networks.

Springer Handbook of Lasers and Optics Lulu.com

In the CRC Handbook of Laser Science and Technology: Supplement 2, experts summarize the discovery and properties of new optical materials that have appeared since the publication of Volumes III-V. Included are the latest advances in optical crystals, glasses and plastics, laser host materials, phase conjugation materials, linear electrooptic materials, nonlinear optical materials, magnetooptic materials, elastooptic materials, photorefractive materials, liquid crystals, and thin film coatings. The book also includes expanded coverage of optical waveguide materials and new sections on optical liquids, glass fiber lasers, diamond optics, and gradient index materials. Appendices include Designation of Russian Optical Glasses; Abbreviations, Acronyms, and Mineralogical or Common Names for Optical Materials; and Abbreviations for Methods of Preparing Optical Materials. Extensive tabulations of materials properties with references to the primary literature are provided throughout the supplement. The CRC Handbook of Laser Science and Technology: Supplement 2 represents the latest volume in the most comprehensive, up-to-date listing of the properties of optical materials for lasers and laser systems, making it an essential reference work for all scientists and engineers working in laser research and development.

History of Nanotechnology Springer

One of the most exciting prospects for optical fibres made from fluoride glasses is the possibility of providing long distance optical communication systems without the need for repeaters. This objective has stimulated much of the work into fluoride glasses over the past ten years, and has prompted the writing of this book. It has also emerged that fluoride fibres can transmit both visible and infrared energy (from about 0.5 to 5 ,urn) and that they have many applications outside the field of telecommunications. These include optical fibre sensors (particularly in remote infrared spectroscopy), laser surgery and fibre lasers. Several companies are now established in the field, and good quality fluoride fibres are available from sources throughout the USA, Europe and Japan. Moreover, the first commercial instruments based on fluoride fibres are finding their way to the market place and these fibres will undoubtedly form the basis of many more instruments yet to be developed. The work presented in this book represents the field both from an academic understanding of the materials and ways to convert them into fibre, and from a practical and commercial viewpoint. The principal author and some of the co authors are based at the British Telecom Research Laboratories in the UK.

Advances in the Study of Ancient Technology UPenn Museum of Archaeology

These twenty papers dedicated to Mike Tite focus upon the interpretation of ancient artefacts and technologies, particularly through the application of materials analysis. Instruments from the human eye to mass spectrometry provide insights into a range of technologies ranging from classical alum extraction to Bronze Age wall painting, and cover materials as diverse as niello, flint, bronze, glass and ceramic. Ranging chronologically from the Neolithic through to the medieval period, and geographically from Britain to China, these case studies provide a rare overview which will be of value to students, teachers and researchers with an interest in early material culture.

CRC Handbook of Laser Science and Technology Supplement 2 CRC Press

A detailed account of various applications and uses of transparent ceramics and the future of the industry In Transparent Ceramics: Materials, Engineering, and Applications, readers will discover the necessary foundation for understanding transparent ceramics (TCs) and the technical and economic factors that determine the overall worth of TCs. This book provides readers with a thorough history of TCs, as well as a detailed account of the materials, engineering and applications of TC in its various forms; fabrication and characterization specifics are also described. With this book, researchers, engineers, and students find a definitive guide to past and present use cases, and a glimpse into the future of TC materials. The book covers a variety of TC topics, including: ● The methods employed for materials produced in a transparent state ● Detailed applications of TCs for use in lasers, IR domes, armor-windows, and various medical prosthetics ● A review of traditionally used transparent materials that highlights the benefits of TCs ● Theoretical science and engineering theories presented in correlation with learned data ● A look at past, present, and future use-cases of TCs This insightful guide to ceramics that can be fabricated into bulk transparent parts will serve as a must-read for professionals in the industry, as well as students looking to gain a more thorough understanding of the field.

Archaeological Chemistry Elsevier

This volume is part of the Ceramic Engineering and Science Proceeding (CESP) series. This series contains a collection of papers dealing with issues in both traditional ceramics (i.e., glass, whitewares, refractories, and porcelain enamel) and advanced ceramics. Topics covered in the area of advanced ceramic include bioceramics, nanomaterials, composites, solid oxide fuel cells, mechanical properties and structural design, advanced ceramic coatings, ceramic armor, porous ceramics, and more.

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