

Handbook For Ceramic Glass And Stone Tile Installation

CRC Handbook of Metal EtchantsSurface, Glaze & FormCeramic Technology and ProcessingGlazes and GlazingHandbook of Ceramics Grinding & PolishingCeramics HandbookAerogels HandbookThe CRC Handbook of Mechanical Engineering, Second EditionHandbook of Oral BiomaterialsCeramic Powder Preparation: A HandbookHandbook of Applied Thermal DesignThe Glass Artist's Studio HandbookHandbook of Advanced CeramicsCRC Handbook of Materials ScienceEngineered Materials Handbook, Desk EditionStudio CeramicsSpringer Handbook of GlassHandbook of Advanced CeramicsHandbook of Ceramics and CompositesHandbook of Ceramics, Glasses, and DiamondsNano-Glass CeramicsEngineered Materials Handbook: Ceramics and glassesMaterials Processing HandbookHandbook of sol-gel science and technology. 1. Sol-gel processingCeramic and Glass MaterialsThe Ceramic Glaze HandbookHandbook of Ceramic CompositesHandbook of Advanced Ceramics and CompositesThe Oxford Handbook of Engineering and Technology in the Classical WorldHandbook of Ceramics Grinding and PolishingThe Restorer's Handbook of Ceramics and GlassHandbook of Bioceramics and Biocomposites2011 TCNA Handbook for Ceramic, Glass, and Stone Tile InstallationEncyclopedia and Handbook of Materials, Parts and FinishesHandbook of Ceramics Grinding and PolishingGlass Ceramic TechnologyEngineering PlasticsTellurite Glasses HandbookThe Sea Glass Hunter's HandbookCeramic Art

CRC Handbook of Metal Etchants

This new handbook will be an essential resource for ceramicists. It includes contributions from leading researchers around the world and includes sections on Basic Science of Advanced Ceramics, Functional Ceramics (electro-ceramics and optoelectro-ceramics) and engineering ceramics. Contributions from more than 50 leading researchers from around the world Covers basic science of advanced ceramics, functional ceramics (electro-ceramics and optoelectro-ceramics), and engineering ceramics Approximately 750 illustrations

Surface, Glaze & Form

Non-crystalline solid tellurite glasses continue to intrigue both academic and industry researchers not only because of their many technical applications, but also because of a fundamental interest in understanding their microscopic mechanisms. Tellurite Glasses Handbook: Physical Properties and Data is the first and only comprehensive source

Ceramic Technology and Processing

Aerogels are the lightest solids known. Up to 1000 times lighter than glass and with a density as low as only four times that of air, they show very high thermal, electrical and acoustic insulation values and hold many entries in Guinness World Records. Originally based on silica, R&D efforts have extended this class of

materials to non-silicate inorganic oxides, natural and synthetic organic polymers, carbon, metal and ceramic materials, etc. Composite systems involving polymer-crosslinked aerogels and interpenetrating hybrid networks have been developed and exhibit remarkable mechanical strength and flexibility. Even more exotic aerogels based on clays, chalcogenides, phosphides, quantum dots, and biopolymers such as chitosan are opening new applications for the construction, transportation, energy, defense and healthcare industries. Applications in electronics, chemistry, mechanics, engineering, energy production and storage, sensors, medicine, nanotechnology, military and aerospace, oil and gas recovery, thermal insulation and household uses are being developed with an estimated annual market growth rate of around 70% until 2015. The Aerogels Handbook summarizes state-of-the-art developments and processing of inorganic, organic, and composite aerogels, including the most important methods of synthesis, characterization as well as their typical applications and their possible market impact. Readers will find an exhaustive overview of all aerogel materials known today, their fabrication, upscaling aspects, physical and chemical properties, and most recent advances towards applications and commercial products, some of which are commercially available today. Key Features: •Edited and written by recognized worldwide leaders in the field •Appeals to a broad audience of materials scientists, chemists, and engineers in academic research and industrial R&D •Covers inorganic, organic, and composite aerogels •Describes military, aerospace, building industry, household, environmental, energy, and biomedical applications among others

Glazes and Glazing

This handbook describes several current trends in the development of bioceramics and biocomposites for clinical use in the repair, remodelling, and regeneration of bone tissue. Comprehensive coverage of these materials allows fundamental aspects of the science and engineering to be seen in close relation to the clinical performance of dental and orthopaedic implants. Bioceramics and biocomposites appear to be the most dynamic area of materials development for both tissue engineering and implantable medical devices. Almost all medical specialties will continue to benefit from these developments, but especially dentistry and orthopaedics. In this Handbook, leading researchers describe the use of bionanomaterials to create new functionalities when interfaced with biological molecules or structures. Also described are technologies for bioceramics and biocomposites processing in order to fabricate medical devices for clinical use. Another important section of the book is dedicated to tissue regeneration with development of new matrices. A targeted or personalized treatment device reduces drug consumption and treatment expenses, resulting in benefits to the patient and cost reductions for public health systems. This authoritative reference on the state-of-the-art in the development and use of bioceramics and biocomposites can also serve as the basis of instructional course lectures for audiences ranging from advanced undergraduate students to post-graduates in materials science and engineering and biomedical engineering.

Handbook of Ceramics Grinding & Polishing

Deals with ceramics, glasses, and diamonds - how they work in creating new

products, their forms and processes, and how to get optimal performance from these materials. This book is meant for product designers and industry specialists. It contains data, guidelines, and applications; and three chapters on diamond technology.

Ceramics Handbook

The perfect guide for both seasoned and novice seagunkers, *The Sea Glass Hunter's Handbook* reveals how to locate the best beaches and predict optimum conditions; understand coastal access laws; determine the personal and professional value of sea glass' and identify the source of individual fragments. Sea glass connects civilization and nature, often in surprising ways. This guide investigates how tiny bits of glass and ceramic have engaged generations of avid collectors throughout the world.

Aerogels Handbook

Perfect for the new technician or engineer entering the ceramics industry as well as for the "old hand" who needs an update on some aspect of ceramics processing, this resource provides practical laboratory-oriented answers to such typical processing problems as particle segregation, agglomeration, contamination, pressure gradients, adherence to tooling, and temperature gradients during drying and firing. The author examines the difficulties of practical testing and processing in the ceramic laboratory, such as vast differences in scale and equipment, and shows how to evaluate results taking such variables into account. Once the laboratory work is satisfactorily completed, the rest of the book explores serious issues involved in transferring technology from the lab bench to the plant floor and then to the customer. The author gives advice on dealing with real-life problems such as allocating human and capital resources and overcoming customer wariness of being first to try new procedures and processes. Each section contains practical, hands-on suggestions on performing and sometimes avoiding certain tasks, bringing to the reader key information that is at best sparsely available in the industry. As the author states, "Laboratory skills are gained by hands-on experience. The intent of this book is to accelerate the process."

The CRC Handbook of Mechanical Engineering, Second Edition

A great deal of progress has been made in the development of materials, their application to structures, and their adaptation to a variety of systems and integrated across a wide range of industrial applications. This encyclopedia serves the rapidly expanding demand for information on technological developments. In addition to providing information

Handbook of Oral Biomaterials

CERAMIC & GLASSES is the work of more than 400 contributing authors & reviewers from 12 countries. This volume provides comprehensive information on processing, properties, testing & characterization, design, failure analysis & applications of various types of ceramics & glasses. The emphasis is on practical

information that will be helpful for working engineers, technicians, researchers, educators, & students. Coverage ranges from bricks to superconductors, windows to data transmission lines. Contents include 170 articles divided into 15 major sections: Introduction *Ceramic Powders & Processing; *Forming & Predensification, & Nontraditional Densification Processes; Firing/Sintering: Densification, *Final Shaping & Surface Finishing; Glass Processing; Joining; Testing; Characterization; & NDE; *Failure Analysis; Design Considerations; Properties; Application for Traditional Ceramics; Structural Applications for Technical, Engineering, & Advanced Ceramics. Published by ASM International, Materials Park, OH 44073.

Ceramic Powder Preparation: A Handbook

Gives a foundation to the four principle facets of thermal design: heat transfer analysis, materials performance, heating and cooling technology, and instrumentation and control. The focus is on providing practical thermal design and development guidance across the spectrum of problem analysis, material applications, equipment specification, and sensor and control selection.

Handbook of Applied Thermal Design

The Glass Artist's Studio Handbook

A comprehensive reference on the properties, selection, processing, and applications of the most widely used nonmetallic engineering materials. Section 1, General Information and Data, contains information applicable both to polymers and to ceramics and glasses. It includes an illustrated glossary, a collection of engineering tables and data, and a guide to materials selection. Sections 2 through 7 focus on polymeric materials--plastics, elastomers, polymer-matrix composites, adhesives, and sealants--with the information largely updated and expanded from the first three volumes of the Engineered Materials Handbook. Ceramics and glasses are covered in Sections 8 through 12, also with updated and expanded information. Annotation copyright by Book News, Inc., Portland, OR

Handbook of Advanced Ceramics

The field of materials science and engineering is rapidly evolving into a science of its own. While traditional literature in this area often concentrates primarily on property and structure, the Materials Processing Handbook provides a much needed examination from the materials processing perspective. This unique focus reflects the changing comple

CRC Handbook of Materials Science

Nano-Glass Ceramics: Processing, Properties and Applications provides comprehensive coverage of synthesis and processing methods, properties and applications of the most important types of nano-glass ceramics, from a unique material science perspective. Emphasis is placed on the experimental and practical

aspects of the subject while covering the theoretical and practical aspects and presenting, numerous examples and details of experimental methods. In the discussing the many varied applications of nano-glass ceramics, consideration is given to both, the fields of applications in which the materials are firmly established and the fields where great promise exists for their future exploitation. The methods of investigation adopted by researchers in the various stages of synthesis, nucleation, processing and characterization of glass ceramics are discussed with a focus on the more novel methods and the state of the art in developing nanostructured glass ceramics. Comprehensive coverage of nanostructured glass ceramics with a materials science approach. The first book of this kind Applications-oriented approach, covering current and future applications in numerous fields such as Biomedicine and Electronics Explains the correlations between synthesis parameters, properties and applications guiding R&D researchers and engineers to choose the right material and increase cost-effectiveness

Engineered Materials Handbook, Desk Edition

The Glass Artist's Studio Handbook offers readers a comprehensive and accessible guide to not only the nuts and bolts of this perennially popular craft but insight into the artisan crafter's lifestyle. Our book offers much, much more than “just projects” – it will fast become the go-to reference for all home crafters. Many glass art how-to books on the market provide precise patterns and instructions for projects that are fairly traditional in technique, materials and style. Completing a project from those books leaves you with a piece that is ideally identical to what the author created – and to what every other student using the book created. Many books are strong in the basics but do not do enough to challenge us to stretch our imagination, experiment with new styles, and explore materials. Readers want creative challenge and stimulation, and Quarry delivers with this complete glass art curriculum.

Studio Ceramics

Handbook of Ceramics Grinding and Polishing meets the growing need in manufacturing industries for a clear understanding of the latest techniques in ceramics processing. The properties of ceramics make them very useful as components—they withstand high temperatures and are durable, resistant to wear, chemical degradation, and light. In recent years the use of ceramics has been expanding, with applications in most industry sectors that use machined parts, especially where corrosion-resistance is required, and in high temperature environments. However, they are challenging to produce and their use in high-precision manufacturing often requires adjustments to be made at the micro and nano scale. This book helps ceramics component producers to do cost-effective, highly precise machining. It provides a thorough grounding in the fundamentals of ceramics—their properties and characteristics—and of the abrasive processes used to manipulate their final shape as well as the test procedures vital for success. The second edition has been updated throughout, with the latest developments in technologies, techniques, and materials. The practical nature of the book has also been enhanced; numerous case studies illustrating how manufacturing (machining) problems have been handled are complemented by a highly practical new chapter

on the selection and efficient use of machine tools. Provides readers with experience-based insights into complex and expensive processes, leading to improved quality control, lower failure rates, and cost savings. Covers the fundamentals of ceramics side-by-side with processing issues and machinery selection, making this book an invaluable guide for downstream sectors evaluating the use of ceramics, as well as those involved in the manufacturing of structural ceramics. Numerous case studies from a wide range of applications (automotive, aerospace, electronics, medical devices)

Springer Handbook of Glass

Book Description: *Surface, Glaze and Form: Pottery Techniques* covers three of the most critical aspects of the ceramic process. The thirty artists represented here discuss the techniques they use to create unique forms and the methods they use to glaze and decorate their work. All types of forming methods, from handbuilding to slipcasting, are illustrated in detailed step-by-step photo sequences, along with surface techniques that cover a wide range of decorative possibilities. Many of the techniques in this book revolve around making complete projects from forming through decoration so you get a variety of techniques from a single artist. *Surface, Glaze & Form: Pottery Techniques* provides enough ideas and techniques to keep you excited for the rest of your life. Every new technique you learn can alter the way you currently work or even take you off on a whole different adventure. This book is indeed an atlas of possibilities. Where will you go?

Handbook of Advanced Ceramics

This is a concise, up-to-date book that covers a wide range of important ceramic materials used in modern technology. Chapters provide essential information on the nature of these key ceramic raw materials including their structure, properties, processing methods and applications in engineering and technology. Treatment is provided on materials such as alumina, aluminates, Andalusite, kyanite, and sillimanite. The chapter authors are leading experts in the field of ceramic materials. An ideal text for graduate students and practising engineers in ceramic engineering, metallurgy, and materials science and engineering.

Handbook of Ceramics and Composites

Focusing on the machining of ceramic materials such as silicon nitride, carbide and zirconia, this handbook provides a clear understanding of modern improvements in ceramic processing. The 20 international experts chapter authors describe the properties and characteristics of ceramics, the various types of abrasive processes, and typical tests used in the procedures including cost reduction methods.

Handbook of Ceramics, Glasses, and Diamonds

Nano-Glass Ceramics

This volume is concerned with the structural and physical properties of important

classes of composite and ceramic materials of engineering importance, covering synthesis of the materials by casting and solidification routes.

Engineered Materials Handbook: Ceramics and glasses

The book introduces the latest advances in dental materials and biomaterials science. It contains a comprehensive introduction and covers ceramic, metallic, and polymeric oral biomaterials. The contributing authors are from all over the world and are distinguished in their disciplines. A solid primer for dental students, the book is also highly recommended for students of engineering and basic science who want to gain an insight in contemporary biomaterials science. For medical practitioners, the book offers an invaluable opportunity to learn about the latest steps in dental biomaterials.

Materials Processing Handbook

Handbook of Ceramics Grinding and Polishing meets the growing need in manufacturing industries for a clear understanding of the latest techniques in ceramics processing. The properties of ceramics make them very useful as components—they withstand high temperatures and are durable, resistant to wear, chemical degradation, and light. In recent years the use of ceramics has been expanding, with applications in most industry sectors that use machined parts, especially where corrosion-resistance is required, and in high temperature environments. However, they are challenging to produce and their use in high-precision manufacturing often requires adjustments to be made at the micro and nano scale. This book helps ceramics component producers to do cost-effective, highly precise machining. It provides a thorough grounding in the fundamentals of ceramics—their properties and characteristics—and of the abrasive processes used to manipulate their final shape as well as the test procedures vital for success. The second edition has been updated throughout, with the latest developments in technologies, techniques, and materials. The practical nature of the book has also been enhanced; numerous case studies illustrating how manufacturing (machining) problems have been handled are complemented by a highly practical new chapter on the selection and efficient use of machine tools. Provides readers with experience-based insights into complex and expensive processes, leading to improved quality control, lower failure rates, and cost savings Covers the fundamentals of ceramics side-by-side with processing issues and machinery selection, making this book an invaluable guide for downstream sectors evaluating the use of ceramics, as well as those involved in the manufacturing of structural ceramics Numerous case studies from a wide range of applications (automotive, aerospace, electronics, medical devices)

Handbook of sol-gel science and technology. 1. Sol-gel processing

During the past 20 years, the field of mechanical engineering has undergone enormous changes. These changes have been driven by many factors, including: the development of computer technology worldwide competition in industry improvements in the flow of information satellite communication real time

monitoring increased energy efficiency robotics automatic control increased sensitivity to environmental impacts of human activities advances in design and manufacturing methods These developments have put more stress on mechanical engineering education, making it increasingly difficult to cover all the topics that a professional engineer will need in his or her career. As a result of these developments, there has been a growing need for a handbook that can serve the professional community by providing relevant background and current information in the field of mechanical engineering. The CRC Handbook of Mechanical Engineering serves the needs of the professional engineer as a resource of information into the next century.

Ceramic and Glass Materials

This valuable handbook has been compiled by internationally renowned researchers in the field. Each chapter is focused on a specific composite system or a class of composites, presenting a detailed description of processing, properties, and applications.

The Ceramic Glaze Handbook

Presents over 20 ceramic artists and the techniques they used to create innovative forming, unusual surfaces, spectacular glazing and more.

Handbook of Ceramic Composites

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Handbook of Advanced Ceramics and Composites

CRC Handbook of Materials Science is a readily accessible guide to the physical properties of solid state and structural materials. Inter-disciplinary in approach and content, it covers a broad variety of types of materials, including materials of present commercial importance plus new biomedical, composite, and laser materials.

The Oxford Handbook of Engineering and Technology in the Classical World

Nearly every aspect of daily life in the Mediterranean world and Europe during the florescence of the Greek and Roman cultures is relevant to engineering and technology. This text highlights the accomplishments of the ancient societies, the research problems, and stimulates further progress in the history of ancient technology.

Handbook of Ceramics Grinding and Polishing

The Restorer's Handbook of Ceramics and Glass

Since Dr. Disiich of Germany prepared a glass lens by the sol-gel method around 1970, sol-gel science and technology has continued to develop. Since then this field has seen remarkable technical developments as well as a broadening of the applications of sol-gel science and technology. There is a growing need for a comprehensive reference that treats both the fundamentals and the applications, and this is the aim of "Handbook of Sol-Gel Science and Technology." The primary purpose of sol-gel science and technology is to produce materials, active and non-active including optical, electronic, chemical, sensor, bio- and structural materials. This means that sol-gel science and technology is related to all kinds of manufacturing industries. Thus Volume 1, "Sol-Gel Processing," is devoted to general aspects of processing. Newly developed materials such as organic-inorganic hybrids, photonic crystals, ferroelectric coatings, photocatalysts will be covered. Topics in this volume include: Volume 2, "Characterization of Sol-Gel Materials and Products," highlights the important fact that useful materials are only produced when characterization is tied to processing. Furthermore, characterization is essential to the understanding of nanostructured materials, and sol-gel technology is a most important technology in this new field. Since nanomaterials display their functional property based on their nano- and micro-structure, "characterization" is very important. Topics found in Volume 2 include: Sol-gel technology is a versatile technology, making it possible to produce a wide variety of materials and to provide existing substances with novel properties. This technology was applied to producing novel materials, for example organic-inorganic hybrids, which are quite difficult to make by other fabricating techniques, and it was also applied to producing materials based on high temperature superconducting oxides. "Applications of Sol-Gel Technology," (Volume 3), will cover applications such as:

Handbook of Bioceramics and Biocomposites

2011 TCNA Handbook for Ceramic, Glass, and Stone Tile Installation

This publication presents cleaning and etching solutions, their applications, and results on inorganic materials. It is a comprehensive collection of etching and

cleaning solutions in a single source. Chemical formulas are presented in one of three standard formats - general, electrolytic or ionized gas formats - to insure inclusion of all necessary operational data as shown in references that accompany each numbered formula. The book describes other applications of specific solutions, including their use on other metals or metallic compounds. Physical properties, association of natural and man-made minerals, and materials are shown in relationship to crystal structure, special processing techniques and solid state devices and assemblies fabricated. This publication also presents a number of organic materials which are widely used in handling and general processing waxes, plastics, and lacquers for example. It is useful to individuals involved in study, development, and processing of metals and metallic compounds. It is invaluable for readers from the college level to industrial R & D and full-scale device fabrication, testing and sales. Scientific disciplines, work areas and individuals with great interest include: chemistry, physics, metallurgy, geology, solid state, ceramic and glass, research libraries, individuals dealing with chemical processing of inorganic materials, societies and schools.

Encyclopedia and Handbook of Materials, Parts and Finishes

Handbook of Ceramics Grinding and Polishing

Glass Ceramic Technology

“No pot is left unturned, as the author features elegant examples of major glaze techniques.”—Booklist. “This well-illustrated handbook covers glaze chemistry, application techniques, firing, and problem solving. Color photographs comparing fired samples are particularly good.”—Library Journal. “An invaluable reference”—National Ceramics.

Engineering Plastics

A two-volume reference set for all ceramicists, both in research and working in industry The only definitive reference covering the entire field of advanced ceramics from fundamental science and processing to application Contributions from over 50 leading researchers from around the world This new Handbook will be an essential resource for ceramicists. It includes contributions from leading researchers around the world, and includes sections on: Basic Science of Advanced Ceramic, Functional Ceramics (electro-ceramics and optoelectro-ceramics) and engineering ceramics. Contributions from over 50 leading researchers from around the world

Tellurite Glasses Handbook

This handbook provides comprehensive treatment of the current state of glass science from the leading experts in the field. Opening with an enlightening contribution on the history of glass, the volume is then divided into eight parts. The first part covers fundamental properties, from the current understanding of the

thermodynamics of the amorphous state, kinetics, and linear and nonlinear optical properties through colors, photosensitivity, and chemical durability. The second part provides dedicated chapters on each individual glass type, covering traditional systems like silicates and other oxide systems, as well as novel hybrid amorphous materials and spin glasses. The third part features detailed descriptions of modern characterization techniques for understanding this complex state of matter. The fourth part covers modeling, from first-principles calculations through molecular dynamics simulations, and statistical modeling. The fifth part presents a range of laboratory and industrial glass processing methods. The remaining parts cover a wide and representative range of applications areas from optics and photonics through environment, energy, architecture, and sensing. Written by the leading international experts in the field, the Springer Handbook of Glass represents an invaluable resource for graduate students through academic and industry researchers working in photonics, optoelectronics, materials science, energy, architecture, and more.

The Sea Glass Hunter's Handbook

This handbook presents an authoritative account of the potential of advanced ceramics and composites in strategic applications, including defense, national security, aerospace, and energy security (especially nuclear energy). It highlights how their unique combination of superior properties such as low density, high strength, high elastic modulus, high hardness, high temperature capability, and excellent chemical and environmental stability are optimized in technologies within these fields. The handbook is organized according to application type. It allows readers to learn about strategies that have been used in different fields and to transfer them to their own. The book addresses a wide variety of ceramics and their composites, including PZT ceramics, carbon nanotubes, aerogels, silica radomes, relaxor ferroelectrics, and many others.

Ceramic Art

Glass-ceramic materials share many properties with both glass and more traditional crystalline ceramics. This new edition examines the various types of glass-ceramic materials, the methods of their development, and their countless applications. With expanded sections on biomaterials and highly bioactive products (i.e., Bioglass and related glass ceramics), as well as the newest mechanisms for the development of dental ceramics and theories on the development of nano-scaled glass-ceramics, here is a must-have guide for ceramic and materials engineers, managers, and designers in the ceramic and glass industry.

[ROMANCE](#) [ACTION & ADVENTURE](#) [MYSTERY & THRILLER](#) [BIOGRAPHIES & HISTORY](#) [CHILDREN'S](#) [YOUNG ADULT](#) [FANTASY](#) [HISTORICAL FICTION](#) [HORROR](#) [LITERARY FICTION](#) [NON-FICTION](#) [SCIENCE FICTION](#)