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F. T. Wallenberger This book serves as an introduction to advanced inorganic fibers and aims to support fundamental research, assist applied scientists and designers in industry, and facilitate materials science instruction in universities and colleges. Its three main sections deal with fibers which are derived from the vapor phase such as single crystal silicon whiskers or carbon nanotubes, from the liquid phase such as advanced glass and single crystal oxide fibers, and from solid precursor fibers such as carbon and ceramic fibers. Contents FIBERS FROM THE VAPOR, LIQUID AND SOLID PHASE 1.1 The most important phase is the liquid phase 1.2 A fiber by any name is still a fiber 1.3 Biographic sketches of the authors 1.4 Acknowledgments CHAPTER 1 FIBERS FROM THE VAPOR, LIQUID AND SOLID PHASE F. T. Wallenberger The book describes advanced inorganic fibers, focuses on principles and concepts, analyzes experimental and commercial processes, and relates process variables to structures, structures to fiber properties and fiber properties to end-use performance. In principle, there are discontinuous or inherently short, and continuous or potentially endless, fibers. Short fibers range from asbestos fibers, which were described as early as 300 BC to carbon nanotubes which were discovered in 1991 [1] and have been fully described in 1999 [2].

Due to their complexity and diversity, understanding the structure of textile fibres is of key importance. This authoritative two-volume collection provides a comprehensive review of the structure of an extensive range of textile fibres. Volume 2 begins by reviewing natural fibres such as cellulosic, cotton, protein, wool and silk fibres. Part two considers regenerated cellulosic, protein, alginate, chitin and chitosan fibres. The final part of the book discusses inorganic fibres such as glass, carbon and ceramic fibres as well as specialist fibres such as thermally and chemically-resistant fibres, optical and hollow fibres. Chapters review how fibre structure contributes to key mechanical properties. A companion volume reviews the structure of manufactured polymer fibres. Edited by leading authorities on the subject and with a team of international authors, the two volumes of the Handbook of textile fibre structure is an essential reference for textile technologists, fibre scientists, textile engineers and those in academia. Discusses how fibre structure contributes to key mechanical properties Reviews natural fibres such as cellulosic, cotton and silk fibres and considers various regenerated fibres Examines inorganic fibres including glass and carbon as well as specialist fibres such as chemically-resistant and optical fibres

This book presents a global view of the development and applications of technical textiles with the description of materials, structures, properties, characterizations, functions and relevant production technologies, case studies, challenges, and opportunities. Technical textile is a transformative research area, dealing with the creation and studies of new generations of textiles that hoist many new scientific and technological challenges that have never been encountered before. The book emphasizes more on the principles of textile science and technology to provide solutions to several engineering problems. All chapter topics are exclusive and selectively chosen and designed, and they are extensively explored by different authors having specific knowledge in each area.

Fibres to Smart Textiles: Advances in Manufacturing, Technologies, and Applications offers comprehensive coverage of the fundamentals and advances in the textile and clothing manufacturing sectors. It describes the basics of fibres, yarns, and fabrics and their end use in the latest developments and applications in the field and addresses environmental impacts from textile processes and how to minimize them. This book serves as a single comprehensive source discussing textile fibres, yarn formation, filament formation techniques, woven fabric formation, knitting technologies, nonwoven manufacturing technologies, braiding technologies, and dyeing, printing, and finishing processes. Testing of textile materials, environmental impacts of textile processes and use of CAD and CAM in designing textile products are also included. The book also discusses applications including textile composites and biocomposites, technical textiles, smart textiles, and nanotextiles. With chapters authored by textile experts, this practical book offers guidance to professionals in textile and clothing manufacturing and shows how to avoid potential pitfalls in product development.

Fiberglass and Glass Technology: Energy-Friendly Compositions and Applications provides a detailed overview of fiber, float and container glass technology with special emphasis on energy- and environmentally-friendly compositions, applications and manufacturing practices which have recently become available and continue to emerge. Energy-friendly compositions are variants of incumbent fiberglass and glass compositions that are obtained by the reformulation of incumbent compositions to reduce the viscosity and thereby the energy demand. Environmentally-friendly compositions are variants of incumbent fiber, float and container glass compositions that are obtained by the reformulation of incumbent compositions to reduce environmentally harmful emissions from their melts. Energy- and environmentally-friendly compositions are expected to become a key factor in the future for the fiberglass and glass industries. This book consists of two complementary sections: continuous glass fiber technology and soda-lime-silica glass technology. Important topics covered include:

- o Commercial and experimental compositions and products
- o Design of energy- and environmentally-friendly compositions
- o Emerging glass melting technologies including plasma melting
- o Fiberglass composite design and engineering
- o Emerging fiberglass applications and markets

Fiberglass and Glass Technology: Energy-Friendly Compositions and Applications is written for researchers and engineers seeking a modern understanding of glass technology and the development of future products that are more energy- and environmentally-friendly than current products.

Braiding is a very old textile manufacturing technology that traditionally has been used to produce items like ropes, shoe laces, and cables. Recently, braiding has gained attention in the medical, aerospace, transportation, and civil engineering communities, among others, due to its ability to produce structures that can fulfill the explicit demands imposed by these technical sectors. **Braided Structures and Composites: Production, Properties, Mechanics, and Technical Applications** provides a single source of cutting-edge information on braiding and its applications. Featuring chapters authored by leading experts in their respective fields, this first-of-its-kind book: Explains the basic principles of braiding technology for industrial textiles, composites, and products Identifies the key parameters that influence the braiding process and its

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produced structures Shows how to control these parameters to achieve the desired material characteristics Discusses braided structure modeling and analysis techniques and software tools Describes various application requirements and their design solutions Braided Structures and Composites: Production, Properties, Mechanics, and Technical Applications supplies a critical understanding of braiding from concept to product design and application. This book is vital to the development of multifunctional products with highly specific features using braiding technology.

The only book to provide a complete survey -- from the crystallographic fundamentals right up to recent high-tech applications in aerospace technology. Following a general introduction to the topic, the authors go on to cover the crystal chemistry of mullite and related phases, as well as its basic properties, phase equilibria and stability. One whole section is devoted to the synthesis and processing of mullite ceramics, while later ones cover mullite coatings, fibers and matrix composites. For materials scientists, solid state chemists and physicists, crystallographers and mineralogists.

Covering an important material class for modern applications in the aerospace, automotive, energy production and creation sectors, this handbook and reference contains comprehensive data tables and field reports on successfully developed prototypes. The editor and authors are internationally renowned experts from NASA, EADS, DLR, Porsche, MT Aerospace, as well as universities and institutions in the USA, Europe and Japan, and they provide here a comprehensive overview of current R & D with an application-oriented emphasis.

This book contains eight chapters that discuss the manufacturing methods, surface treatment, composite interfaces, microstructure-property relationships with underlying fundamental physical and mechanical principles, and applications of carbon fibers and their composites. Recently, carbon-based materials have received much attention for their many potential applications. The carbon fibers are very strong, stiff, and lightweight, enabling the carbon materials to deliver improved performance in several applications such as aerospace, sports, automotive, wind energy, oil and gas, infrastructure, defense, and semiconductors. However, the use of carbon fibers in cost-sensitive, high-volume industrial applications is limited because of their relatively high costs. However, its production is expected to increase because of its widespread use in high-volume industrial applications; therefore, the methods used for manufacturing carbon fibers and carbon-fiber-reinforced composites and their structures and characteristics need to be investigated.

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