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What is a composite?

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Concise Encyclopedia of Composite Materials draws its material from the award-winning Encyclopedia of Materials: Science and Technology, and includes updates and revisions not available in the original set. This customized collection of articles provides a handy reference for materials scientists and engineers with an interest in composite materials made from polymers, metals, ceramics, carbon, biocomposites, nanocomposites, wood, cement, fibers, etc. Brings together articles from the Encyclopedia of Materials: Science & Technology that focus on the essentials of composite materials, including recent updates Every

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article has been commissioned and written by an internationally recognized expert and provides a concise overview of a particular aspect of the field Enables rapid reference; extensive bibliographies, cross-referencing and indexes guide the user to the most relevant reading in the primary literature Covers areas of active research, such as biomaterials and porous materials

The Concise Encyclopedia of Composite Materials provides a full and up-to-date account of composite materials, particularly fiber composites.

The Concise Encyclopedia of Composite Materials, first published as a hardbound edition in 1989, has been updated and revised and is now available as a paperback for individual researchers requiring a fundamental reference source for this dynamic field. Since 1989, research involving composite materials has advanced rapidly and this revised edition reflects those changes with the addition of new articles, including recent work on nanocomposites, smart composite materials systems, and metallic multilayers. The 67 articles included

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in this revised edition are presented in alphabetical order and each provides an introduction to one aspect of composite materials. Every article is extensively cross-referenced and includes a full bibliography. The volume contains over 250 photographs, drawings and tables as well as exhaustive subject and author indexes. The comprehensive breadth of coverage of the field of composite materials makes this volume an invaluable source of reference for materials scientists and mechanical engineers involved in industrial and academic research into the fabrication, properties and applications of composite materials.

To use materials effectively, their composition, degree of perfection, physical and mechanical characteristics, and microstructure must be accurately determined. This concise encyclopledia covers the wide range of characterization techniques necessary to achieve this. Articles included are not only concerned with the characterization techniques of specific materials such as polymers, metals, ceramics and semiconductors but also techniques which can be applied to materials in general. The techniques described cover bulk methods, and also a number of specific methods to study the topography and composition of surface and near-surface regions. These techniques range from the well-established and traditional to the very latest

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including: atomic force microscopy; confocal optical microscopy; gamma ray diffractometry; thermal wave imaging; x-ray diffraction and time-resolved techniques. This unique concise encyclopedia comprises 116 articles by leading experts in the field from around the world to create the ideal guide for materials scientists, chemists and engineers involved with any aspect of materials characterization. With over 540 illustrations, extensive cross-referencing, approximately 900 references, and a detailed index, this concise encyclopedia will be a valuable asset to any materials science collection.

This Concise Encyclopedia draws its material from the award-winning Encyclopedia of Materials: Science and Technology, and includes updates and revisions not available in the original set. This customized collection of articles provides a handy reference for materials scientists and engineers with an interest in the structure of metals, polymers, ceramics and glasses, biomaterials, wood, paper, and liquid crystals. Materials science and engineering is concerned with the relationship between the properties and structure of materials. In this context "structure" may be defined on the atomic scale in the case of crystalline materials, on the molecular scale (in the case of polymers, for example), or on the microscopic scale. Each of these definitions has been applied in making the present selection

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of articles. * Brings together articles from the Encyclopedia of Materials: Science & Technology that focus on the structure of materials at the atomic, molecular and microscopic levels, plus recent updates * Every article has been commissioned and written by an internationally recognized expert and provides a concise overview of a particular aspect of the field * Extensive bibliographies, cross-referencing and indexes guide the user to the most relevant reading in the primary literature

Magnetic and superconducting materials pervade every avenue of the technological world - from microelectronics and mass-data storage to medicine and heavy engineering. Both areas have experienced a recent revitalisation of interest due to the discovery of new materials, and the re-evaluation of a wide range of basic mechanisms and phenomena. This Concise Encyclopedia draws its material from the award-winning Encyclopedia of Materials and Engineering, and includes updates and revisions not available in the original set -- making it the ideal reference companion for materials scientists and engineers with an interest in magnetic and superconducting materials. * Contains in excess of 130 articles, taken from the award-winning Encyclopedia of Materials: Science and Technology, including ScienceDirect updates not available in the original set. * Each article discusses one aspect of

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magnetic and superconducting materials and includes photographs, line drawings and tables to aid the understanding of the topic at hand. * Cross-referencing guides readers to articles covering subjects of related interest.

The building materials covered by the Concise Encyclopedia of Building and Construction Materials are classified in three groups: structural materials, semistructural materials, and auxiliary materials.

Plastics Materials and Processes: A Concise Encyclopedia is a resource for anyone with an interest in plastic materials and processes, from seasoned professionals to laypeople. Arranged in alphabetical order, it clearly explains all of the materials and processes as well as their major application areas and usages. Plastics Materials and Processes: A Concise Encyclopedia: Discusses and describes applications and practical uses of the materials and processes. Clear definitions and sufficient depth to satisfy the information seekers needs

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