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What is a composite?

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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 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

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67 articles included 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.

This Concise Encyclopedia draws its material from the Encyclopedia of Materials: Science and Technology, and includes updates and revisions not available in the original set. Articles have been selected which discuss this wide range of properties, both generally and also specifically with reference to metals and alloys, polymeric materials, ceramics and glasses, composite materials, as well as some miscellaneous materials such as wood, paper and textiles. The majority of contributions contain quantitative data, the others are predominantly descriptive in nature where it is more appropriate for the type of material in question. The compilation provides the reader with an up-to-date understanding of the mechanical properties of a wide range of materials. This Concise Encyclopedia will be useful to faculty and postgraduate research students in materials science and technology and related disciplines, especially physics, chemistry, engineering and biomedical science; as well as researchers and staff in government and industry.

To use materials effectively, their composition, degree of perfection, physical and mechanical characteristics, and

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microstructure must be accurately determined. This concise encyclopedia 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 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

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scale. Each of these definitions has been applied in making the present selection 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

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

Advanced ceramics cover a wide range of materials which are ceramic by nature but have been developed in response to specific requirements. This encyclopedia collects together 137 articles in order to provide an up-to-date account of the advanced ceramic field. Some articles are drawn from the acclaimed Encyclopedia of Materials Science and Engineering, often revised, and others have been newly commissioned. The Concise Encyclopedia of Advanced Ceramic Materials aims to provide a comprehensive selection of accessible articles which act as an authoritative guide to the subject. The format is designed to help the readers form opinions on a particular subject. Arranged alphabetically, with

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a broad subject range, the articles are diverse in character and style, thereby stimulating further discussion. Topics covered include survey articles on glass, hot pressing, insulators, powders, and many are concerned with specific chemical systems and their origins, processing and applications. The Concise Encyclopedia of Advanced Ceramic Materials will be invaluable to materials scientists, researchers, educators and industrialists working in technical ceramics.

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