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ASC was established in 1985 to advance the science and technology of composite materials and structures. This all-volunteer group of professionals in academia, industry, national laboratories and federal agencies aims to build relationships and facilitate the exchange of ideas between individuals with a mutual interest in composites.

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Composite Materials presents recent developments and state-of-the-art achievements in the science and technology of composites. It identifies and discusses key and emerging issues for future progress in the multidisciplinary field of composites. By bringing together leading experts and promising innovators from research institutions and academia, Composite Materials highlights unresolved issues and identifies opportunities for long-term research needs to provide the reader with a vision for the future in

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various fields of application of composite materials. A few of the many future directions highlighted in the book are increasingly multifunctional properties; complex, hybrid and nanoreinforced materials; and tailoring in multiple dimensions and directions. The wider areas covered include, but are not limited to, the following: biomedical engineering, civil engineering, aerospace engineering, automotive engineering, and naval engineering. Composite Materials is designed to increase the reader's understanding of the state of the art of composite

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materials in a variety of industrial sectors and to explore future needs and opportunities. It will therefore be of use to professionals working in the composites industry, research centers, and academia, who already have a graduate-level knowledge of composite materials.

Carbon and glass fibre reinforced composite materials have been used for many years in several different types of applications. However, these conventional composites are derived from non-renewable reinforcements and they pose a significant threat to the



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environment. Government legislation and consumer behaviour have recently forced many industries to adapt sustainable composites. Industries such as automotive, marine and aerospace are now seeking sustainable lightweight composites with the aim to reduce the overall weight of the components with enhanced materials and design aspects. Therefore, there is high demand on research for the development of sustainable lightweight composites. This book presents a comprehensive review of lightweight composites with the central aim to increase their use in

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key industrial sectors such as automotive, marine and aerospace. There is no such book currently available that is dedicated to sustainable lightweight applications covering important topics such as key drivers for lightweight composites, mechanical properties, damage characterisation, durability and environmental aspects. Key topics that are addressed include: The roles of reinforcements and matrices in composite materials Sustainable natural fibre reinforcements and their morphological structures Lightweight applications and properties

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materials is the study of  
partial differential  
equations with rapid  
oscillations in their  
coefficients. Although

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extensively studied for more than a hundred years, an explosion of ideas in the past four decades has dramatically increased our understanding of the relationship among the properties of the constituent materials, the underlying microstructure of a composite, and the overall effective moduli that govern the macroscopic behavior. This renaissance has been fueled by the technological need for improving our knowledge base of composites, by the advance of the underlying mathematical theory of homogenization, by the discovery of new variational

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principles, by the recognition of how important the subject is to solving structural optimization problems, and by the realization of the connection with the mathematical problem of quasiconvexification. This book surveys these exciting developments at the frontier of mathematics and presents many new results.

Highlights the recent developments in the fundamental understanding of composites; important information for researchers and composite scientists.

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