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Engineered Interfaces in Fiber Reinforced Composites (Hardback)

By J. K. Kim, Y. W. Mai

ELSEVIER SCIENCE TECHNOLOGY, United Kingdom, 1998. Hardback. Book Condition: New. 242 x 170 mm. Language: English . Brand New Book. The study and application of composite materials are a truly interdisciplinary endeavour that has been enriched by contributions from chemistry, physics, materials science, mechanics and manufacturing engineering. The understanding of the interface (or interphase) in composites is the central point of this interdisciplinary effort. From the early development of composite materials of various nature, the optimization of the interface has been of major importance. While there are many reference books available on composite materials, few of them deal specifically with the science and mechanics of the interface of fiber reinforced composites. Further, many recent advances devoted solely to research in composite interfaces have been scattered in a variety of published literature and have yet to be assembled in a readily accessible form. To this end this book is an attempt to bring together recent developments in the field, both from the materials science and mechanics perspective, in a single convenient volume. The central theme of the book is tailoring the interface properties to optimise the mechanical performance and structural integrity of composites with enhanced strength/stiffness and fracture toughness (or specific...



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