Composite Materials: Science and Engineering (Materials Research and Engineering)

Krishan K. Chawla

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Composite Materials Science and Engineering focuses on the *structure-property* relationships in composite materials. A detailed description is given of how microstructure of different fibers (such as glass, Kevlar, polyethylene, carbon, boron, silicon, carbide, alumina etc.) controls their characteristics. The important role of interface in composite materials is discussed. Up to date information about the recent advances in polymer matrix-, metal matrix-, and ceramic matrix composites is provided. Micro- and macromechanical aspects of composite materials as well as their strength, fracture, and design aspects are described in detail - always emphasizing the basic theme of how the structure controls the resultant properties. Extensive use is made of micrographs and line drawings to bring home to the reader the importance of structure-property relationships in composites. Throughout the book, examples are given from practical applications of composites in various fields. Extensive references to the literature, general bibliography, as well as practice problems are provided. The book is intended for undergraduates (senior level) and first year graduate students as well as the practicing engineer/scientist in the industry.

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