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Maintaining the interdisciplinary perspective of the first edition, this reference and text provides comprehensive discussions of all aspects of fiber-reinforced composites, including materials, mechanics, properties, test methods, manufacturing and design. Written from a conceptual point of view and emphasizing fundamentals, the second edition of Fiber Reinforced Composites offers updated and expanded sections including: fibres and matrix, including thermoplastic matrices; discontinuous fibres and laminated structures; static mechanical properties, fatigue properties and damage tolerance; resin flow, bag moulding, filament winding and resin transfer moulding; and environmental effects. New coverage is provided on subjects such as thermoplastic composite manufacturing; delamination initiation; metal and ceramic matrix composites; woven fabrics; residual stress; and alternative microchemical equations. With literature citations, figures, tables and display equations, this book is designed both as a reference for mechanical, manufacturing, materials, aerospace, automotive design and structural engineers, and a text for upper-level undergraduate and graduate students in the above disciplines.