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In 1997, Dr. Kaw introduced the first edition of Mechanics of Composite Materials, receiving high praise for its comprehensive scope and detailed examples. He also introduced the groundbreaking PROMAL software, a valuable tool for designing and analyzing structures made of composite materials. Updated and expanded to reflect recent advances in the field, this Second Edition retains all of the features-logical, streamlined organization, thorough coverage, and self-contained treatment-that made the first edition a bestseller.

The book begins with a question-and-answer style introduction to composite materials, including updated material on new applications. The remainder of the book discusses macromechanical analysis of both individual lamina and laminate materials; micromechanical analysis of lamina including elasticity based models; failure, analysis, and design of laminates; and a new chapter devoted to symmetrical and nonsymmetrical beams. New examples and derivations were added to the chapters on micromechanical and macromechanical analysis of lamina, and the design chapter includes two new examples: design of a pressure vessel and a drive shaft. The author also added key terms and a summary to each chapter. Updated PROMAL software is available at the author's Web site, updated frequently, along with new multiple-choice questions.

With superior tools and complete coverage, Mechanics of Composite Materials, Second Edition makes it easier than ever to integrate composite materials into your designs with confidence.

This introduction to the mechanical behavior of composites introduces the basics of composites by posing frequently-asked questions, answered in depth by the author. PROMAL software is included, which allows readers to conduct studies, compare theories, design structures, and access the information in tables and graphs. Intended for graduate students and upper-level undergraduates.