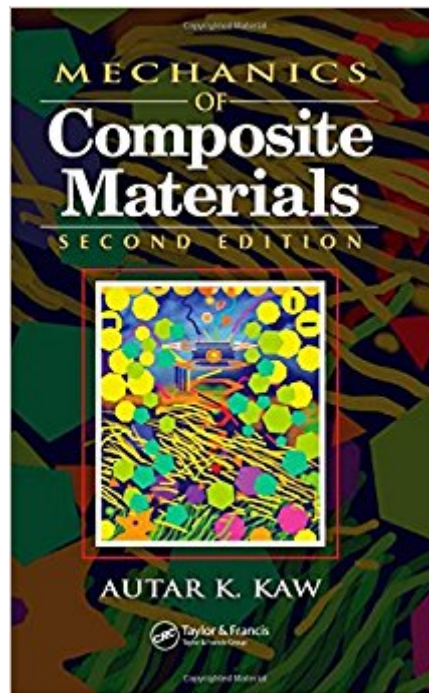




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# Mechanics Of Composite Materials, Second Edition (Mechanical And Aerospace Engineering Series)



## Synopsis

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 a fresh 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 symmetrical and nonsymmetrical beams (new chapter). New examples and derivations are included in the chapters on micromechanical and macromechanical analysis of lamina, and the design chapter contains two new examples: design of a pressure vessel and design of a drive shaft. The author also adds key terms and a summary to each chapter. The most current PROMAL software is available via the author's often-updated Web site, 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. For instructions on downloading the associated PROMAL software, please visit <http://www.autarkaw.com/books/composite/promaldownload.html>.

## Book Information

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"well written, very readable, clear, and easy to follow. It has good quality figures, references, and exercises at the end of each chapter, and a good subject index at the end of the book. The book is recommended as a beginning graduate or a senior undergraduate textbook on composites. While for researchers who are new to composites, this is an excellent introductory book." -Applied Mechanics Review, March 1999

Kaw; Autar K. University of South Florida, Tampa, Florida, USA,

Bought this book for a graduate course taught by the author of this book. It is a very concise compendium of information on composite materials mechanics. The book is very straightforward and everything is explained very clearly. Also, the book does have quite a few errors and typos. Dr. Kaw has an errata sheet on his website: [...]

This is a great composites book. The author leads you through very helpful step by step derivations and procedures. A must for any novice composite student.

Very fast shipping. Book as described

It's a very good book. It's easy to read. It contains a very good explanation about the mechanical behaviour of laminas and laminates.

This book is missing ALL Greek letters (such as rho, sigma, epsilon, ..etc) in ALL its equations. This not only makes the book useless, it makes it potentially dangerous, since engineering equations usually have one or more Greek letters. This oversight on the part of editors is very unfortunate. Also the author should not have consented to his work being treated so shabbily. should take the KINDLE edition of this book out of circulation and fix it as soon as possible. Also I suggest should check other KINDLE books for similar errors.

This book has described the materials very well. It is really perfect to be a textbook. Good examples and problems.

I don't like it. There is missing paper and also it is not in a good condition. I don't like it.

Mechanics of Composite Materials by Kaw is a good basic text for an introductory university composites course or as a resource for engineering professionals with minimal composites experience. It covers basics of composites, macro-mechanics of the lamina, stiffness, strength, classical lamination theory, special cases of stiffnesses for layups, and hydro-thermal stresses. This book's strong point is its simplicity and its ample example problems designed to reinforce retention of each concept. Also, purchasers are offered access to download his program for analyzing laminates with classical lamination theory. This makes it excellent as a more introductory text, and also for engineering professionals with less experience and confidence. Overall, I recommend it as a solid foundational text for an introductory composite class or as a composite analysis resource.

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