



Composite Materials: Design and Applications, Third Edition

By Daniel Gay

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Composite Materials: Design and Applications, Third Edition By Daniel Gay

Considered to have contributed greatly to the pre-sizing of composite structures, **Composite Materials: Design and Applications** is a popular reference book for designers of heavily loaded composite parts. Fully updated to mirror the exponential growth and development of composites, this English-language **Third Edition**:

- Contains all-new coverage of nanocomposites and biocomposites
- Reflects the latest manufacturing processes and applications in the aerospace, automotive, naval, wind turbine, and sporting goods industries
- Provides a design method to define composite multilayered plates under loading, along with all numerical information needed for implementation
- Proposes original study of composite beams of any section shapes and thick-laminated composite plates, leading to technical formulations that are not found in the literature
- Features numerous examples of the pre-sizing of composite parts, processed from industrial cases and reworked to highlight key information
- Includes test cases for the validation of computer software using finite elements

Consisting of three main parts, plus a fourth on applications, **Composite Materials: Design and Applications, Third Edition** features a technical level that rises in difficulty as the text progresses, yet each part still can be explored independently. While the heart of the book, devoted to the methodical pre-design of structural parts, retains its original character, the contents have been significantly rewritten, restructured, and expanded to better illustrate the types of challenges encountered in modern engineering practice.

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Editorial Review

Review

"Very good illustrations on the problem setup, theory, and physical representation. Very easy to follow."
?Dr. Gang Wang, University of Alabama in Huntsville, USA

"This book covers the topics related to the mechanics of composite materials in a very simple way. ... It is addressed to graduate and undergraduate students as well as to practical engineers who want to enhance their knowledge and learn the guidelines of the use of composite materials. ... This book is...a good classroom material...[and] a good reference."

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?Stephen W. Tsai, Stanford University, California, USA

About the Author

Daniel Gay has led the Laboratoire de Génie Mécanique de Toulouse, now the Institut Clément Ader, from its inception for over 15 years. A former student of the École Normale Supérieure de Cachan, Dr. Gay has authored numerous articles, scientific publications, and industrial reports on composite materials and structures. He has taught at undergraduate, graduate, and postgraduate levels in many schools and institutions, including the Université Paul Sabatier – Toulouse III (UPS), Instituts Universitaires de Technologie (IUT), Institut National des Sciences Appliquées (INSA), École Nationale Supérieure de l'Aéronautique et de l'Espace (ISAE), and École Nationale Supérieure de Techniques Avancées (ENSTA).

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