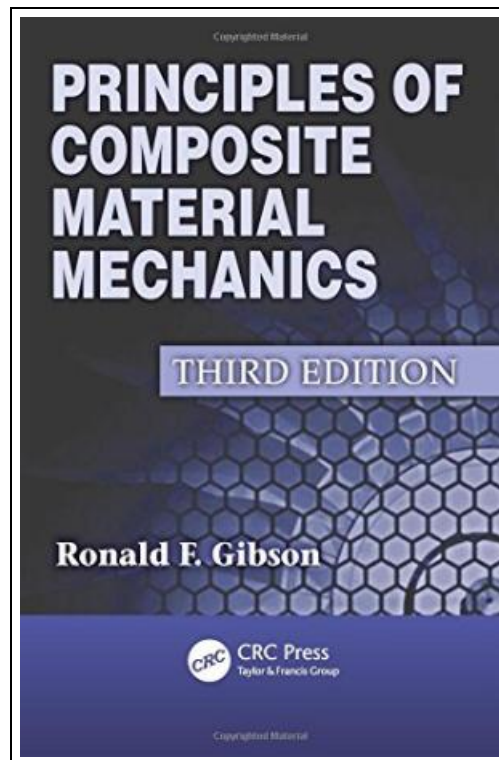


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PRINCIPLES OF COMPOSITE MATERIAL MECHANICS, THIRD EDITION (MECHANICAL ENGINEERING)



CRC Press, 2011. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: "Along with new example problems, homework problems, and references, this third edition covers the many exciting developments in areas such as nanocomposites and multifunctional composites. In addition to new topics, including particulate composites as well as joints in composites, the text features extended coverage of micromechanical modeling, finite element analysis, laminated beam theory, mechanical testing of components, non-standard testing of viscoelastic and dynamic behavior, and analysis of bonded and mechanically fastened joints. It also includes the latest ASTM standards. The author also provides a new appendix on the elements of matrix algebra"--"Preface The goals for the third edition are to continue to present a unique blended coverage of classical and state-of-the-art mechanics of composites technologies, while striving to incorporate the most worked-out example problems and homework problems of any available textbook on mechanics of composite materials. A high priority has been placed on writing a textbook that is easily understood by students. Pedagogical improvements include a total of 81 worked-out example problems (25 of which are new for the third edition), 177 homework problems (25 of which are new), 388 figures (46 of which are new), a new appendix on matrix concepts and operations, new coverage of particle composites, nanocomposites, nanoenhancement of conventional fiber composites, hybrid multiscale composites, and additional coverage of finite element modeling and test methods. Although the book is written first as a textbook covering classical methods, frequent references to current state-of-the-art composites technology and research findings are included. Extensive references are provided, including many current journal articles along with classic and historical publications. I continue to be indebted to my colleagues, graduate students, and sponsors for their encouragement and support over the years. Most recently, my professional affiliations...



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