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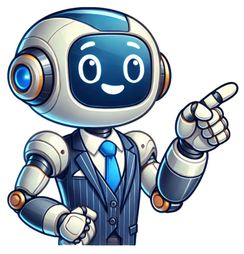

The latest edition of Principles of Composite Material Mechanics offers a unique fusion of traditional and modern mechanics in composites technology. While retaining its classic approach, this updated version also delves into the current state-of-the-art research and advancements in the field.New features of the Third Edition include an abundance of new solved example problems, homework assignments, illustrations, and references.A comprehensive appendix provides in-depth coverage of matrix concepts and operations.The book now includes detailed explanations of particle composites, nanocomposites, nano-enhanced fiber composites, and hybrid multiscale composites.In addition to updated content, the book also expands on its finite element modeling and testing methods.The textbook is designed to be easily accessible to students, featuring a vast array of worked-out example problems and exercises that surpass any other available text on composite materials mechanics. It provides a rich and comprehensive foundation for students to begin their studies in composite materials science and engineering.A solutions manual and PowerPoint presentations are available for instructors who qualify. Professor Ron Gibson, a renowned researcher and professor of mechanical engineering at the University of Nevada-Reno, has made significant contributions to the field of composite materials. He is an elected fellow of several prominent societies, including the American Society of Mechanical Engineers and the American Society for Composites. His research focuses on various aspects of composite materials, including mechanical characterization, noise and vibration control, design and manufacturing, energy-absorbing materials, multifunctional composites, and nanocomposites. Gibson's work is characterized by its use of numerous worked-out examples, which serve to reinforce key concepts and expand upon them. The Third Edition of his book has been updated with new topics, examples, homework problems, figures, references, and an appendix on matrix concepts and operations. This comprehensive textbook provides a thorough understanding of composite materials' unique properties, such as anisotropy and inhomogeneity. The book is highly recommended for engineering students, researchers, and practicing engineers working with composite materials. As noted by Dr. Maria Kashtalyan, "Mechanics of composite materials is essential to understand the particular behavior of composites." Professor Ron Gibson's textbook fills this need, offering a thorough introduction to the subject and providing valuable knowledge for practical applications. The item weighs 1200 grams and has ISBN 9781439850053. It is available from various sellers, including Seattle Goodwill, GF Books, Inc., Book Deals, and WorldofBooks, with ratings ranging from 4 to 5 stars. The book's condition varies from good to very good, with some having shelf-wear, minor notes, or highlighting. Prices start at $2.45. The item is published by CRC Press, 2011, with ISBN 10: 1439850054 and ISBN 13: 9781439850053. Purchases support Goodwill's nonprofit mission, providing free job training and education in the Seattle area.