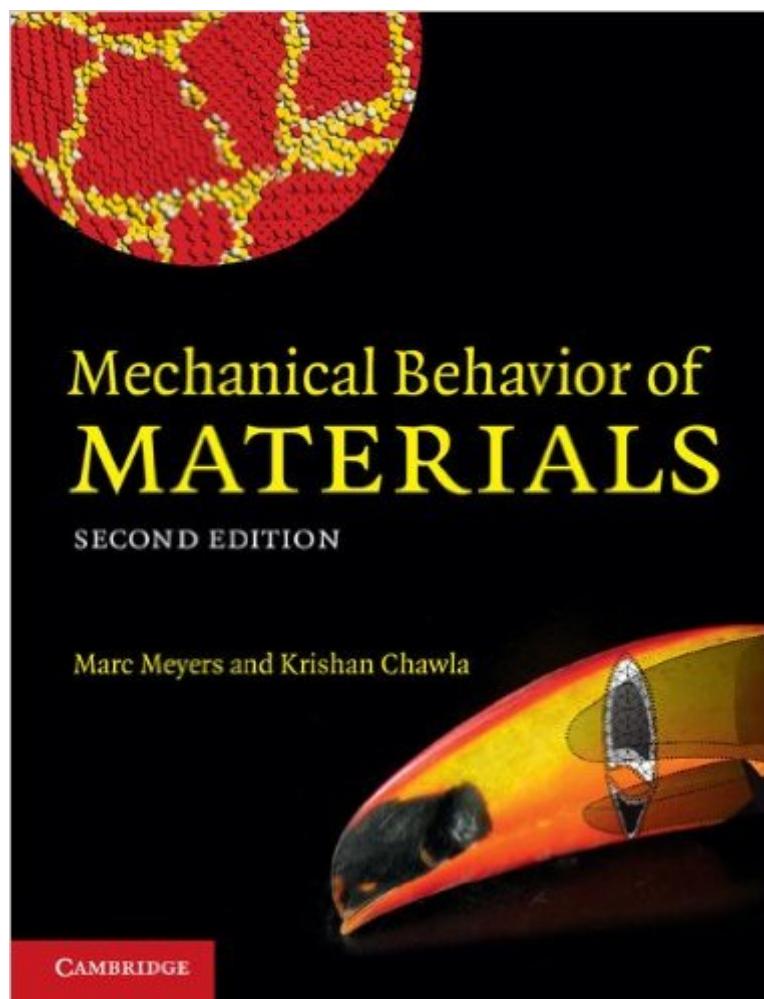


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Mechanical Behavior Of Materials



Synopsis

A balanced mechanics-materials approach and coverage of the latest developments in biomaterials and electronic materials, the new edition of this popular text is the most thorough and modern book available for upper-level undergraduate courses on the mechanical behavior of materials. To ensure that the student gains a thorough understanding the authors present the fundamental mechanisms that operate at micro- and nano-meter level across a wide-range of materials, in a way that is mathematically simple and requires no extensive knowledge of materials. This integrated approach provides a conceptual presentation that shows how the microstructure of a material controls its mechanical behavior, and this is reinforced through extensive use of micrographs and illustrations. New worked examples and exercises help the student test their understanding. Further resources for this title, including lecture slides of select illustrations and solutions for exercises, are available online at www.cambridge.org/97800521866758.

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Customer Reviews

The text is completely riddled through with errors--grammar errors, errors in arithmetic, and errors in derivations. If it were just errors, and if some compilation of errata were published, the textbook would be more tolerable. However, many more grievous problems plague the whole of the text, rendering it entirely useless, especially for the undergraduate target audience. On more than one occasion, the authors have launched into derivations of critical equations using completely unexplained variables; on more than one occasion, the authors refer to tables or figures that don't show up in the text for another few pages. Some figures are entirely unexplained, even though their complexity is far beyond the scope of an undergrad's comprehension. The worst part of the book, however, and the one that affects students the most, is that the homework problems at the end of each chapter are needlessly difficult to solve and use. A list of grievances: 1. The problems are not ordered in any conceivable fashion. Problem number 1 can come from midway through the chapter, while problem 2 can come from the very end of the chapter. Problem 3 can be an easy, one-line answer, whereas problem 4 can be a graduate-level derivation. With no discernible order in the practice problems, studying using this book is incredibly difficult. 2. A large number of the problems do not have enough information to solve the problem. Somehow, the student is expected to pore through material property tables--not included in the textbook, mind you--to finish some questions. And a large number of the problems aren't even discussed in the book, whether in the text itself or in the examples. To the normal undergraduate student, these problems are simply impossible. 3.

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