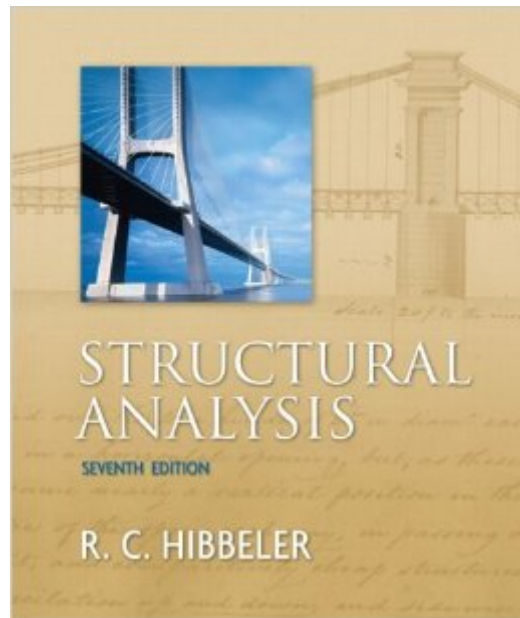


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Structural Analysis (7th Edition)



Synopsis

This book provides students with a clear and thorough presentation of the theory and application of structural analysis as it applies to trusses, beams, and frames. Emphases are placed on teaching readers to both model and analyze a structure. A hallmark of the book, Procedures for Analysis, has been retained in this edition to provide learners with a logical, orderly method to follow when applying theory. Chapter topics include types of structures and loads, analysis of statically determinate structures, analysis of statically determinate trusses, internal loadings developed in structural members, cables and arches, influence lines for statically determinate structures, approximate analysis of statically indeterminate structures, deflections, analysis of statically indeterminate structures by the force method, displacement method of analysis: slope-deflection equations, displacement method of analysis: moment distribution, analysis of beams and frames consisting of nonprismatic members, truss analysis using the stiffness method, beam analysis using the stiffness method, and plane frame analysis using the stiffness method. For individuals planning for a career as structural engineers.

Book Information

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Customer Reviews

This textbook really helped me to learn structures. The book was easy to read and understand with plenty of pictures along the way for visual representations of the concepts involved. Each step was clearly stated and explained. The example problems were very helpful and mostly easy to follow. Overall, a good engineering structures text.

This one's a keeper. I bought it for P.E. exam review, which it is very good for, but also good as an introduction to Structural Analysis. Up to date issue. Easy to read and understand, excellent example and practice problems. A nice book. The reviews I read on it were good compared to others. Glad I bought it.

Like all his books, Hibbeler does a wonderful job organizing and laying out the material. However, also like his other books, the example problems in the chapter are not in the same realm of difficulty as the problems at the end of the chapter. With subject matter this difficult, it would be an excellent idea to acquire the solutions manual, a nearly impossible book to find. Good Luck!

As a civil engineering student I was required to purchase this book and I wasn't about to pay the \$300 at my university's bookstore so I settled for the kindle version instead costing \$153 at the time. As an ebook it was easy enough to work with from a computer or iPad and I will most certainly reference it in future subjects. The hardcover version which most students splurged on was of a surprising smaller size than expected given the depth of the subject, yet the quality makes up for the quantity mostly I guess. It is set up incredibly well with beautiful illustrations that show engineering as the art form it truly is and the examples are extraordinarily useful; however, one or two additional problems in each chapter could have helped solidify some of the later topics. Unfortunately like with any advanced math or engineering textbook the occasional error was found in the book's solutions which was rather concerning. Hopefully they take greater care with the next edition to prevent these mistakes because engineers need to know how to properly design a bridge or any structure without error.

This book could be a great book for the undergrad intro to structures course. It has a nice writing style, it is easy to understand, and has plenty of example problems. However, it is FULL of errors. I think someone in my class would find a new error at least once a week.

This book is really good. The explanations of the theories are very detailed and understandable. The sample problems are thoroughly explained and similar to homework problems and the book is laid out very well. I recommend this book to anyone taking structural analysis.

I have studied every single page of this book. It is very good for self study and an ideal one towards undergraduate perfection. Complex topics are told in a very clear manner. Examples and figures

make the book so understandable. Strongly recommended before entering into advanced topics...(I could find 2 errors but they are obvious if you be careful)

Hibbeler's text on structural analysis generally contains many and helpful example problems throughout the text that do relate to homework problems at the end of the chapters, and all but a few of the problems have answers at the end of the book (I only missed two points out of 200 on homeworks because we could always check answers!). I have found a few, but minor mistakes in the answers, usually involving incorrect units in answers. There is no way I could have done well in the class without the well-developed example problems. The course TA using this book should have a complete solutions guide to the book where students can get help if they can't come up with the answer in the back of the book for a problem. Don't order the international edition of this book - I did and later ordered the expensive US edition because of the hassle of dealing with the purely SI unit international edition.

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