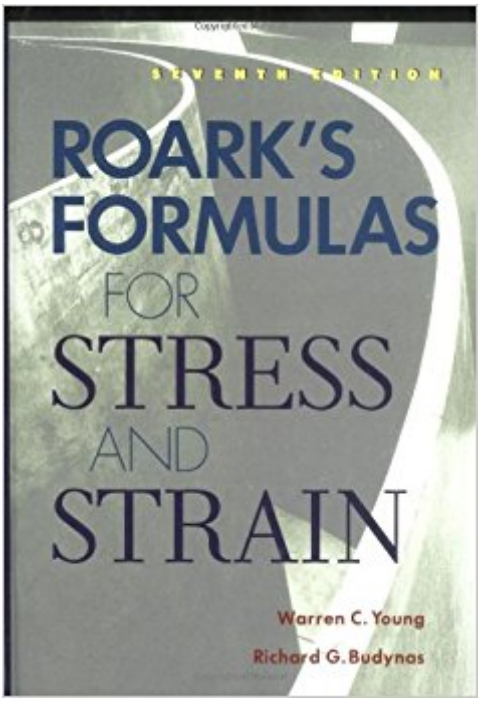
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Roark's Formulas For Stress And Strain



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Synopsis

Solutions-based approach to quick calculations in structural element design and analysis Now updated with 30% new material, Roark Formulas for Stress and Strain, Seventh Edition, is the ultimate resource for designers, engineers, and analysts who need to calculate loads and stress. This landmark reference from Warren Young and Richard Budynas provides you with equations and diagrams of structural properties in an easy-to-use, thumb-through format. Updated, with a user-friendly page layout, this new edition includes expanded coverage of joints, bearing and shear stress, experimental stress analysis, and stress concentrations, as well as material behavior coverage and stress and strain measurement. YouÃ¢â ¬â„¢ll also find expanded tables and cases; improved notations and figures in the tables; consistent table and equation numbering; and verification of correction factors.

Book Information

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Customer Reviews

The Ultimate Roark's now includes-- * New material * More tables and case studies * Easier-to-read notations and figures * More accessible layout * Consistent table and equation numbering * More on experimental stress analysis and stress concentrations * New data on material behavior under stress and strain including appendix on composite materials * Updated tables With each succeeding edition, this renowned reference has proven itself as the be-all, end-all resource for designers, engineers, and analysts working with calculations of loads and stress. The Seventh Edition is no exception, as it carries on the book's tradition of presenting equations and diagrams of

structural properties all in an easy-to-use, thumb-through format. Offering readability, the latest edition of Roark's Formulas for Stress and Strain is truly the best Roark's yet, and the one reference that you'll turn to most, project after project, year after year.

Warren C. Young is professor emeritus in the department of mechanical engineering at the University of Wisconsin, Madison, where he was on the faculty for over 40 years. Dr. Young has also taught as a visiting professor at Bengal Engineering College in Calcutta, India, and served as chief of the Energy Manpower and Training Project sponsored by USAir in Bandung, Indonesia. Richard G. Budynas is professor of mechanical engineering at Rochester Institute of Technology. He is author of a newly revised McGraw-Hill textbook, Applied Strength and Applied Stress Analysis, 2nd Edition.

At first I thought this book is good for someone who have just started to learn solid mechanics. I found that it is not.However,This is such a great reference book.Everything about stress and strain is in here. There are many formulas and table for various shapes and types of member and joint. This is good for a mechnical and civil engineer.

The content of Roark's Formulas is very handy for a desk reference type book and is referred to in many other works like Marks' Standard Handbook for Mechanical Engineers and Design of Weldments and Design of Welded Structures by Omer Blodgett.My copy of the 7th edition looks like the pages were crooked when they were cut to size. The text on left hand pages is tilted to the top left and the right pages are tilted to the top right. Most likely when the stack of printed material was in the size cutter it wasn't squared properly because every page is turned the exact same amount. It doesn't affect the readability of anything it just looks odd because you almost think you're holding the book crooked sine the text isn't parallel to the top and bottom edges.The paper isn't the slick, durable type used in McGraw Hill's other reference books like Marks' Std Handbook for Mechanical Engineers, so combined with the crooked page trim I would rate the physical appearance sub-par. I expect better from a professional level book from McGraw Hill.

The book is a complete review of the most used formulas of the structural engineering.I appreciate very much Part 2 dealing with principles and methods in a very short nevertheless comprehensive way and giving references too. Moreover Part 3 is giving additional theory which is very useful for a correct use of the formulas.It is a very powerful tool for quick preliminary design of mechanical

structures and components.I would like to have an additional chapter dealing with shock and vibrations.

The usefulness of this book does not require many words. It has most any formula you'll need with plenty of options for boundary conditions of the situation. I ordered this as "good condition" and that was an accurate description: it's a little rough, but has all the information in it. If you want a pristine book, go with new, but realize the information in it is still the same as a used one, just ignore the underlines, etc. The rating is for the book, however, and it is great.

I bought this when I was working in Engineering, great reference book.....

The book is a gift and I can't really comment on it. I do however, want to say that Melz Books has the best customer service I've seen in a long time. They responded quickly to an email request. They understood the nature of the gift, the urgency, and made the decison making easy. They shipped within 2 hours of ordering. MELZ BOOKS ROCKS!

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