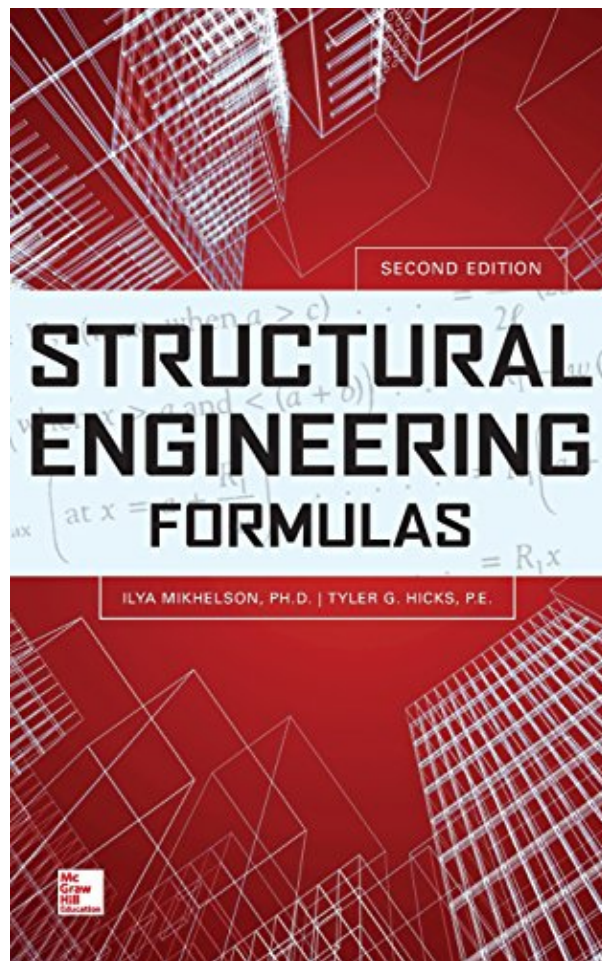
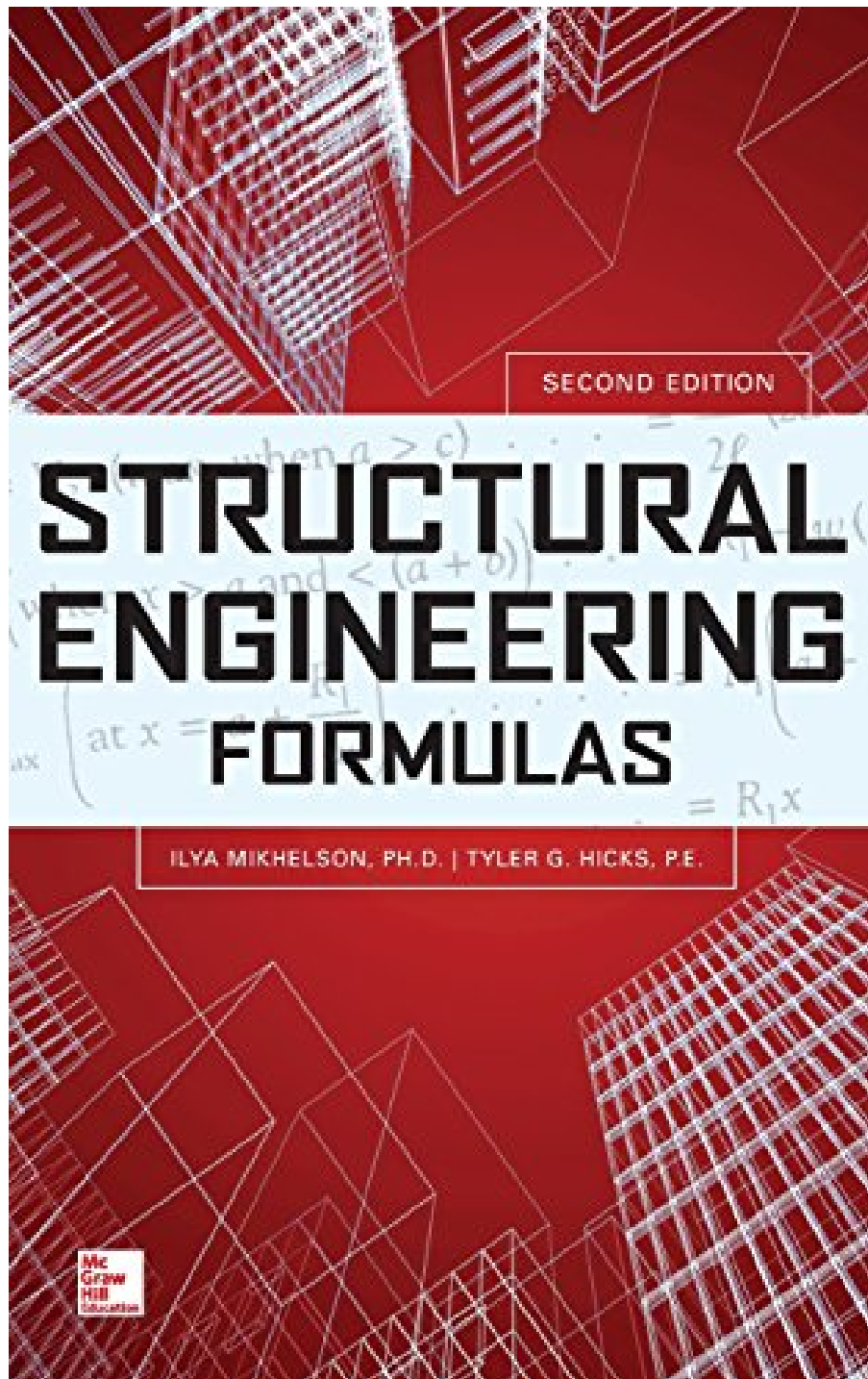


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Ilya Mikhelson had more than 30 years of experience in design, research, and teaching design of bridges, tunnels, subway stations, and buildings. He wrote numerous publications, including Precast Concrete for Underground Construction, Tunnels, and Subways and Building Structures.

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Good Reference

By Samuel

So I read this book, and I think there is good coverage of topics overall. Go back and look at the good reviews that people have left about the first edition of this book, a couple people have made previous reviews in regards to using this book for engineering practice and as a study aid for the P.E. exam. The civil and structural engineering principles are perfectly in line, and the book is very thin to carry around; so you'll hardly notice it is in your briefcase.

I noticed that this book is not up to date, which is why I have a four-star review here. I will explain why the book is not up to date.

For instance, on page 132 of this book is a page on base plates for columns. The equation this book has for allowable bearing pressure is $0.35 \cdot f_c \cdot \sqrt{A_2/A_1}$. Now in the ACI 318-11 and AISC 360-05 codes, the equation is $0.85 \cdot f_c \cdot \sqrt{A_2/A_1}$. So the mathematical coefficients are different due to updated codes, but the equations and engineering principles are the same.

In Chapter 2 or 3 of this book, there are some formulas for properties of geometric sections. The author used Roark's Formulas for Stress and Strain, 4th edition. There is an 8th edition of Roark's formulas in print right now.

3 of 3 people found the following review helpful.

good basic formulas

By Dennis

I bought this book mainly for the frame analysis. I have referred to it on several occasions since buying it. I would recommend it.

1 of 1 people found the following review helpful.

Check the variables!

By nmh5001

Inconsistent notation. For example, on the same page, it shows bending stress = M/S and shear stress = SV/Ib , except the two S s aren't the same value. Again, on the same page, it shows $S = I/c$ and $SV/Ib = 3V/2A$ for rectangles. Great. But knowing that the shear modulus (S) = $bh^2/6$ and $I = bh^3$, $SV/Ib = 3V/2A$. Why couldn't they use shear stress = QV/Ib like everyone else? Q being the static moment, not the shear modulus. In fairness, they do an example on the next page making it clear they aren't the same thing, but why use the same variable on the same page two rows apart from each other when they don't represent the same value!? It's supposed to be a quick reference guide. If you quickly looked at that page and ran with it, you'd get the wrong answer.

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