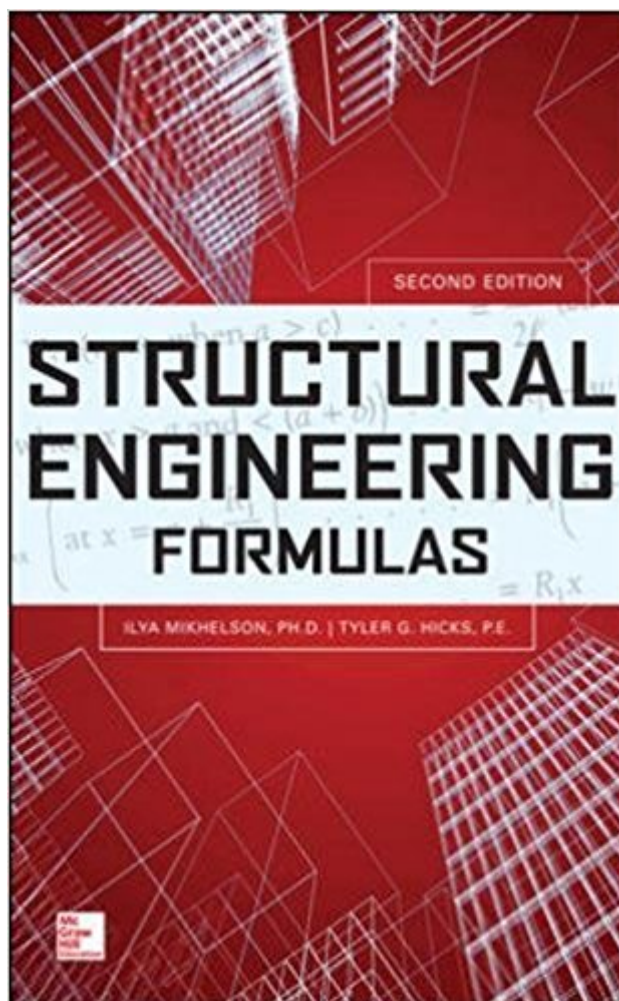


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# Structural Engineering Formulas, Second Edition



## Synopsis

PRACTICAL, PORTABLE, AND PACKED WITH UP-TO-DATE STRUCTURAL ENGINEERING FORMULAS Thoroughly revised with more than 300 new formulas, this compact yet comprehensive compilation puts essential data related to the design and analysis of engineering structures at your fingertips. Structural Engineering Formulas, Second Edition covers a wide range of topics, including statics, soils, foundations, retaining structures, pipes, and tunnels, and explains the use and application of each ready-to-use formula. This time-saving reference for civil engineers is also invaluable to students and those studying for licensing exams. **COVERAGE INCLUDES:** Stress and strain • methods of analysis | Properties of geometric sections | Beams--diagrams and formulas for various loading conditions | Frames--diagrams and formulas for various static loading conditions | Arches--diagrams and formulas for various loading conditions | Trusses--method of joints and method of section analysis | Plates--bending moments for various support and loading conditions | Soils | Foundations | Retaining structures | Pipes and tunnels--bending moments for various static loading conditions

## Book Information

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## Customer Reviews

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. Tyler G. Hicks, PE, is a consulting engineer and a successful engineering book author. He has worked in

plant design and operation in a variety of industries, taught at several engineering schools, and lectured both in the United States and abroad. Mr. Hicks holds a bachelor's degree in Mechanical Engineering from Cooper Union School of Engineering in New York. He is the author of more than 20 books in engineering and related fields, including Civil Engineering Formulas, Handbook of Mechanical Engineering Calculations, and Handbook of Energy Engineering Calculations.

Inconsistent notation. For example, on the same page, it shows bending stress =  $M/S$  and shear stress =  $SV/lb$ , except the two  $S$ s aren't the same value. Again, on the same page, it shows  $S = I/c$  and  $SV/lb = 3V/2A$  for rectangles. Great. But knowing that the shear modulus ( $S$ ) =  $bh^2/6$  and  $I = bh^3$ ,  $SV/lb = 3V/2A$ . Why couldn't they use shear stress =  $QV/lb$  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.

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

Not what I expected, drawings and illustration are unsharp and hard to analyse.

It is a good reference for looking up structural design formulas.

fine

Compact and light, with all / most of it, necessary formulae properly and neatly arranged. A must have book for practicing engineer..

Very good reference book! A must for my bookshelf!

Great Text for the PE and at Work!

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