



# Structural Engineering Formulas

By Ilya Mikhelson

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This compact yet comprehensive compendium puts the structural engineering formulas most needed on the job at the user's fingertips. Practical and authoritative, *Structural Engineering Formulas* offers 114 formula tables with brief introductions explaining uses and applications. An affordable resource that every civil engineer and engineering student will want nearby, this handy reference features:

- \* Equations used in foundation and soil, retaining structure, tunnel, beam, frame, plate, pipe, and other structural design
- \* Tables helpful for verifying computer analyses of complex structures
- \* Easy-access organization
- \* Appendices of metric conversions, mathematical formulas, and symbols

#### From the Back Cover

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#### About the Author

**Ilya Mikhelson, Ph.D.**, has over 30 years' experience in design, research, and teaching design of bridges, tunnels, subway stations, and buildings. He is the author of numerous other publications, including: *Precast Concrete for Underground Construction*; *Tunnels and Subways*; and *Building Structures*.

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