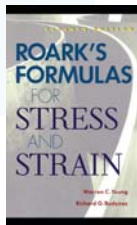


Roark's Formulas For Excel

THE Ultimate REFERENCE



Long considered the most popular engineering handbook, *Roark's Formulas for Stress and Strain* has been helping engineers solve design problems for more than 60 years. Universal Technical Systems, Inc. (UTS) takes it one step further with Roark's Formulas for Excel, a fully interactive version of the landmark reference combined with powerful problem solving technology that dramatically reduces design hours, production costs, and speeds time to market. Imagine not just words and formulas on a page, but completely automated stress analysis of a comprehensive range of structural components—right on your desktop! Since its first publication, Roark is in constant use by mechanical, aerospace, civil, and many other types of practicing engineers.

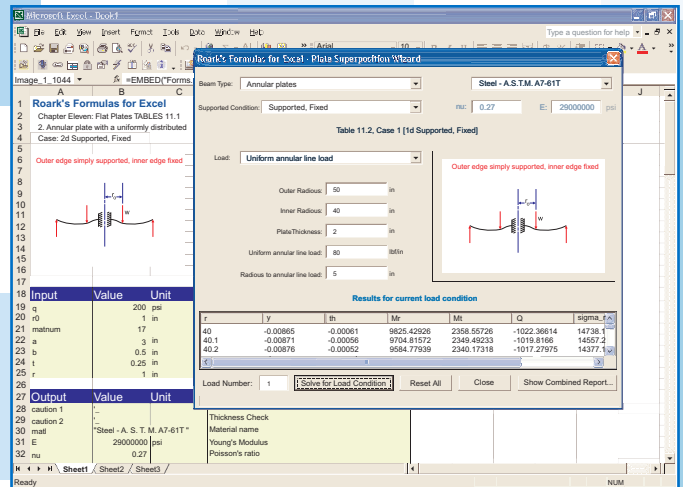
Proven and powerful

Roark's Formulas for Stress and Strain has been thoroughly user-tested and in continuous use since 1938. Roark's Formulas for Excel takes every table and case from the 7th edition and makes it interactive, includes calculations for all cases and tables with accompanying diagrams to help streamline the design process and reduce design iterations, as well as the need for complicated finite element analysis.

In addition, International System of Units (SI) and United States Customary Units (USCU) conversion is automatic with Roark's Formulas for Excel, making work sharing among engineers easier than ever. The user-friendly menu system lets you select a problem by chapter, table, and case—exactly as it is in the book. However, here is where the similarities end.

Pre-formatted plots of deflection, stress, and bending moments let you refine the design like never before. What's more, a powerful math engine, with the unique ability to solve for a variety of combinations of input and output variables (known as backsolving), allows you to easily test "what-if" scenarios and optimize designs without hours of tedious calculations or programming. Just point, click, and solve.

Roark's Formulas for Excel at a Glance



Roark's Formulas for Excel includes a Superposition Data Entry Wizard, handling multiple load calculations on beams and plates with ease, creating plots of stress, deflection, and shear for the combined loads, every step of the way. What used to take hours now takes a matter of minutes!

- Interactive Calculations—for all cases and tables
- Dynamic Plot Annotations—for data analysis and visualization
- Full Materials Database—for streamlined data entry
- Automatic Unit Conversion—for model sharing flexibility
- Report Wizard—for on-demand custom reporting
- Superposition Wizard—solves multiple loads on beams and plates

Bottom Line: Roark's Formulas for Excel gives you the ability to tackle design challenges that would otherwise be too complicated or costly to attempt

