

What is Interactive Equations?

Interactive Equations is a web-based tool where engineers go to find equations suitable for specific applications, paired with worked examples and ready-to-use calculation software.

This is the third interactive tool that Knovel has developed. The others are Knovel Interactive Graphs and Knovel Unit Converter. You can find [here](#) more information about tools.

What is Equation Solver?

Equation Solver is built-in calculation software, emulating an engineering notebook, for online calculation and export of worksheets in Knovel, Mathcad, or HTML format.

What content is available in Knovel Interactive Equations?

Knovel Interactive Equations features 525 equations and over 60 calculation examples relevant to engineers working in the areas of chemical engineering, electronics and semiconductors, mechanical engineering, HVAC, and metals and metallurgy. Equations include calculations in the following areas:

Chemistry

- Fluid dynamics
- Heat transfer
- Physical chemistry
- Reaction kinetics
- Solution properties
- Thermodynamics

Electronics & Semiconductors

- AC circuits
- Magnetic circuits
- Power electronics

General Engineering – Mathematical equations

Mechanics & Mechanical Engineering

- Fluid dynamics
- Forms of work
- Machine design
- Mass transfer

- Strength of materials
- Thermodynamics

Metals & Metallurgy

- Coatings
- Corrosion

Is this content and application free to use?

A number of the Equations and the Equation Solver application are free to all Knovel registered users and all Knovel customers.

It's quick and easy to become a Knovel registered user by using the registration form [here](#) and following the instructions sent from Knovel via email.

If you already have a Knovel account, access Knovel Interactive Equations by [logging in](#). Sample Equations can be accessed by clicking on the Sample Equations entry in the listing on the left side of the Interactive Equations home page.

Where does the content come from?

Subject matter experts with deep industry experience selected and authored the equations and examples. Validation was provided by a team of peer reviewers who evaluated the calculations for accuracy and applicability. A list of our contributors and their biographies is available [here](#).

Is there any help material available for Equation Solver?

The User Guide for Equation Solver is available via the Help menu on the main page. Click [here](#) to preview or download the User Guide in pdf format.

How do I get up to speed fast with Equation Solver?

Access the How -To videos on Equation Solver functionality from the Help Menu on the main page or click [here](#).

Where do I send feedback?

Let us know what you think - email feedback at knovelequations@elsevier.com

Thanks for using Knovel Interactive Equations!