

Getting Started with Knovel

Technical Information and Tools for Engineers

Engineers use Knovel for faster access to the right technical information:

- Best practices
- Disruption resolution
- Energy efficiency
- Failure analysis
- Get up to speed on new technologies
- Materials Selection
- Process Improvement
- Product design and development
- Safety compliance



"Dealing with a wide variety of issues i.e. designing, hydraulics, gas processing, project management - it's hard to keep up to date. **Knovel is very useful in cutting the time & effort required to search for material of interest.**

-Design Engineer, TRANSCANADA

Get up to speed in a new area **Solve a design problem** Look up a **chemical formula** Locate a **new material** Compare properties of **substances** Improve processes **Spec out project plan** Validate assumptions and equipment

Knovel offers more than 20 core subject areas ranging from Aerospace to Chemistry and Mechanics to Safety.

Adhesives, Coatings, Sealants & Inks
Aerospace & Radar Technology
Biochemistry, Biology & Biotechnology
Ceramics & Ceramic Engineering
Chemistry & Chemical Engineering
Civil Engineering & Construction Materials
Earth Sciences
Electrical & Power Engineering
Electronics & Semiconductors
Environment & Environmental Engineering
Food Science
General Engineering & Engineering Management
Industrial Engineering & Operations Management
Mechanics & Mechanical Engineering
Metals & Metallurgy
Nanotechnology
Oil & Gas Engineering
Pharmaceuticals, Cosmetics & Toiletries
Plastics & Rubber
Safety & Industrial Hygiene
Sustainable Energy and Development
Transportation Engineering
Textiles



Know More. Search Less.

www.knovel.com



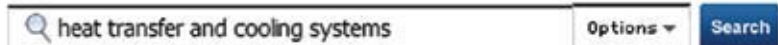
Knovel provides quick and accurate answers to your questions:

What if? What is? How do I?

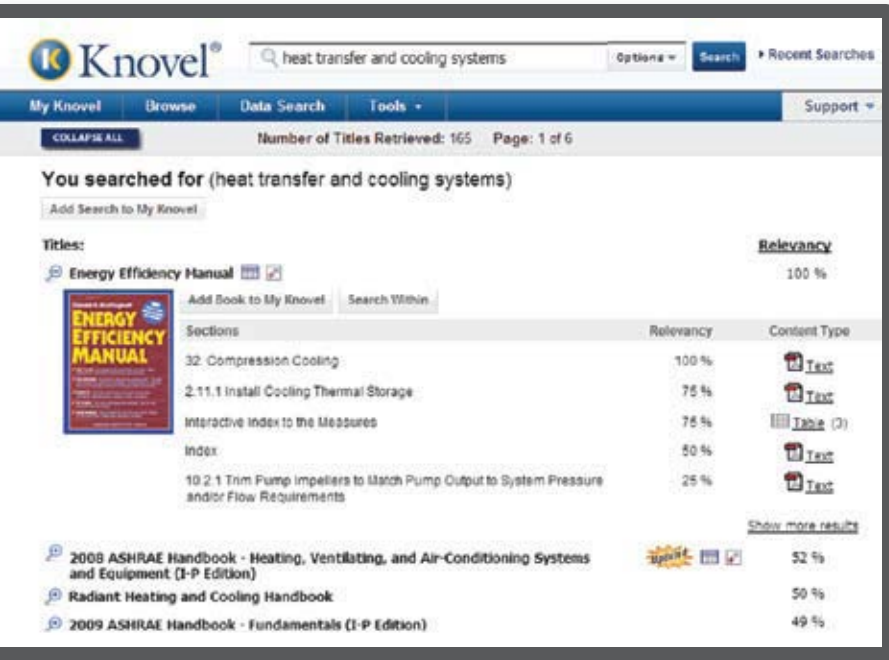
Optimized Search for Engineering

Knovel's search engine is optimized to deliver the results that engineers need. With Knovel, there is no need to waste time with countless irrelevant and unreliable hits from web search engines to locate the right information.

Enter a search term—



Results are returned from vetted professional handbooks and databases. Icons indicate availability of additional analysis tools. **Keyword hits are shown in context—where they occur within the text.**



Knovel search results for "heat transfer and cooling systems". The interface shows a search bar with the query, navigation tabs, and a list of results. The top result is "Energy Efficiency Manual" with 100% relevancy. Other results include sections from the manual and ASHRAE handbooks.

Titles:	Relevancy
Energy Efficiency Manual	100 %
2008 ASHRAE Handbook - Heating, Ventilating, and Air-Conditioning Systems and Equipment (I-P Edition)	52 %
Radiant Heating and Cooling Handbook	50 %
2009 ASHRAE Handbook - Fundamentals (I-P Edition)	49 %

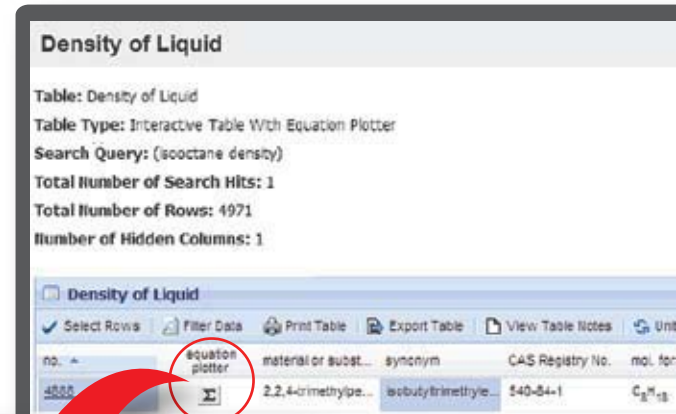
Information you can trust

Drawing on content from more than 50 leading technical publishers and professional societies including AIAA, AIChE, ASHRAE, ASME, IEEE, NACE, SAE and TMS, ASME, Knovel ensures that technical information is relevant, reliable and of professional quality.

Tools for Productivity

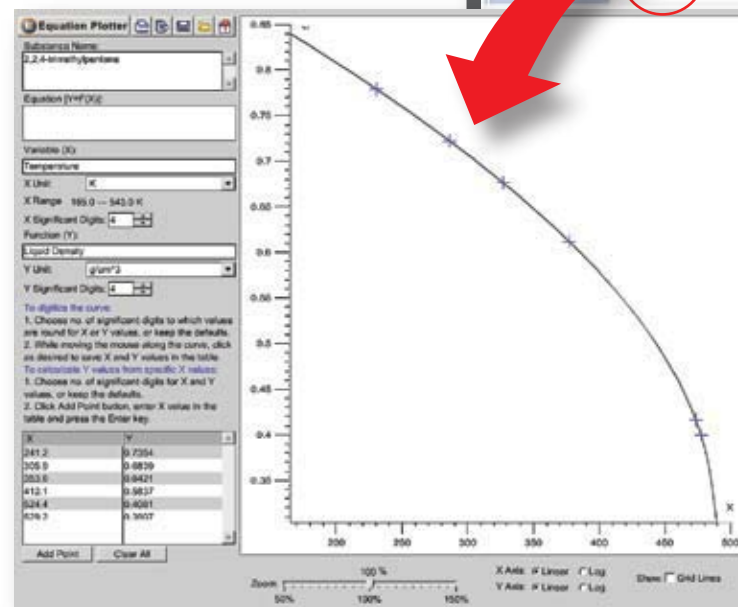
Knovel delivers answers engineers can trust, and it provides tools to further analyze the results. Use the data—sort it, compare it and vet it—then export the results for later use. Retrieve data from traditionally static tables in a book. Only relevant rows are returned. Note that only 1 row of 4971 is relevant to the search query, saving significant time weeding through pages of text.

With Knovel's live graphs and equations, engineers can accurately plot points, test ranges for 'what if scenarios' and solve real-world problems without calculating complex equations or redrawing a static image.



Search results for "Density of Liquid". The interface shows a table with columns for material or substance, synonym, CAS Registry No., and molecular formula. A red circle highlights the "equation plotter" icon in the table header.

no.	material or subst...	synonym	CAS Registry No.	mol. for...
4971	2,2,4-trimethylpe...	isobutyrimethyl...	540-84-1	C ₈ H ₁₈



No other resource takes into account your critical need for analysis. Knovel's tools help you maximize your time so you and other members of your team – whether on-site or in the field—can collaborate and deliver projects on time every time.

Know More. Search Less.