



Knovel Innovations

2025 - 2026

September 2025



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Advancing human progress together

Recent Knovel innovations



Content expansion:

Over 1,000 new resources have been added, along with several new partners.



Improved experience:

New HTML and PDF readers to improve experience



Engineering newsfeed:

180+ trusted sources including 40+ non-English publications



Enhanced interactive tools:

Improvements to the Graph Digitizer and Equation Plotter

Knovel innovations coming soon



Launching Knovel AI

Beta release will support natural language queries & Boolean construction.



Materials Explorer

Materials' first discovery of material properties

Knovel innovations

Delivered in 2025

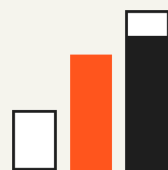
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Growing Network of 160+ Knovel Content Providers



**1,000+
New resources**

added from 2024-2025



**8%
Growth**

in overall content

Newly Expanded content areas

- Energy Storage
- Fuel Cells and Batteries
- Renewable Energy Technologies
- Sustainable Manufacturing and Technologies
- Process Safety
- Additive Manufacturing
- Metallic Materials
- Circular Economy
- Durability of Materials
- Materials Science
- AI/LLMs/Gen AI
- Data Science
- Computer Security
- Packaging

AASHTO

ASCE
AMERICAN SOCIETY OF CIVIL ENGINEERS

<packt>



IET

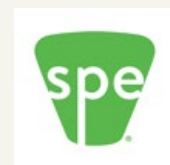
ASHRAE

SAE
INTERNATIONAL

SPRINGER
NATURE



REHVA
Federation of
European Heating,
Ventilation and
Air Conditioning
Associations



ASME
SETTING THE STANDARD

EAGE
EUROPEAN
ASSOCIATION OF
GEOSCIENTISTS &
ENGINEERS

AOCS
Your Global Fats and Oils Connection

IABSE



IChemE
Institution of Chemical Engineers

AIChE
The Global Home of Chemical Engineers

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ROYAL SOCIETY
OF CHEMISTRY

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WILEY

AMPP

AIAA
SHAPING THE FUTURE OF AEROSPACE

SVC
SOCIETY OF
VACUUM
COATERS

SEG
SOCIETY OF EXPLORATION
GEOPHYSICISTS

ARTECH HOUSE
BOSTON | LONDON

PM
Project
Management
Institute

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Content growth with new partners

Knovel is expanding its content portfolio with trusted publishers that bring deep technical expertise, helping engineers and technical professionals' access more domain-specific, real-world insights.

Key benefits of these new content partners:

- ✓ **For over 100 years, DIPRA** has delivered trusted engineering expertise on cast and ductile iron pipe to engineers worldwide.
- ✓ **Ductile Iron Pipe Research Association (DIPRA):** Adds the Cast Iron Handbook and dozens of technical reports covering pipe design, corrosion control and asset management.



Content growth with new partners

Addition of the Complete Collection of Chemical Safety Board Reports on Knovel

Key highlights from CSB content:

- ✓ **Includes 240+ official reports:** 142 Final Investigation Reports and 100 Recommendation Reports in the Chemical Safety Board Investigations collection.
- ✓ **Completely free and open access:** No Knovel account or registration required—broadening availability for safety professionals and regulators.
- ✓ **Supports compliance and training:** Trusted source for aligning with industry safety standards and educating teams on real-world incidents.



Knovel Content Growth: Expanding Sustainability Coverage

New titles covering topics such as

- Carbon Capture and Utilization/ Carbon Calculation and Reduction
- Energy storage and Batteries
- Hydrogen and Fuel Cells
- Renewable Energy Sources (Solar, Wind, Hydroelectric, Biomass, Geo-thermal)
- Sustainable Building Design, Construction and Infrastructure
- Sustainable Energy Systems and Distribution & Smart Grid
- Sustainable Manufacturing and Chemical Processes
- Sustainable Materials and Supply Chain
- Sustainability Policy and Development

15% of new content added in 2024 focuses on Sustainability

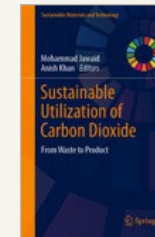
Content from key publishers like

- International Renewable Energy Agency (IRENA)
- Springer Nature
- CIBSE
- Taylor & Francis
- PennWell
- John Wiley & Sons

New titles added in 2024 include:



Energy Storage and Conversion Devices - Supercapacitors; Batteries; and Hydroelectric Cells, Taylor & Francis



Sustainable Utilization of Carbon Dioxide - From Waste to Product, Springer Nature



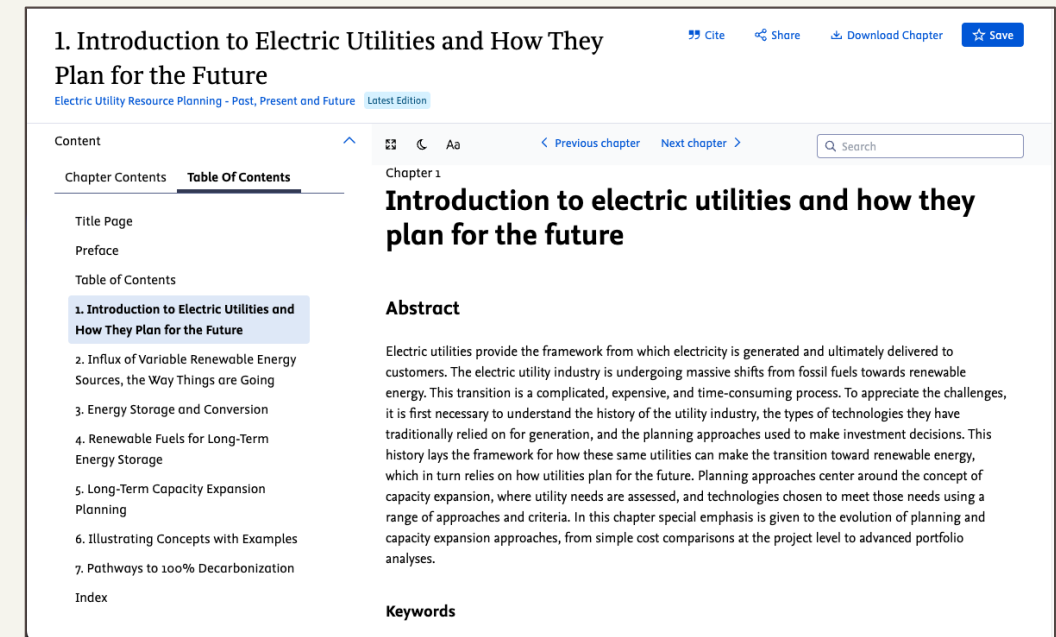
ESG Planning Guide for Energy Projects - A Step-by-Step Process for Project Managers and Teams to Meet Environmental; Social; & Governance Goals, PennWell

Reading Experience – Improved Layout

Discover the enhanced features designed to maximize productivity and satisfaction, ensuring seamless access to valuable content through a streamlined viewer, optimized layout, and mobile support.

Key highlights about our accessibility updates:

-  **Streamlined Viewer:** Enjoy a seamless and efficient reading experience.
-  **Optimized Layout:** Decluttered interface and visual icons for quick data access.
-  **Mobile Optimization:** Access valuable content anytime, anywhere, without usability compromise.

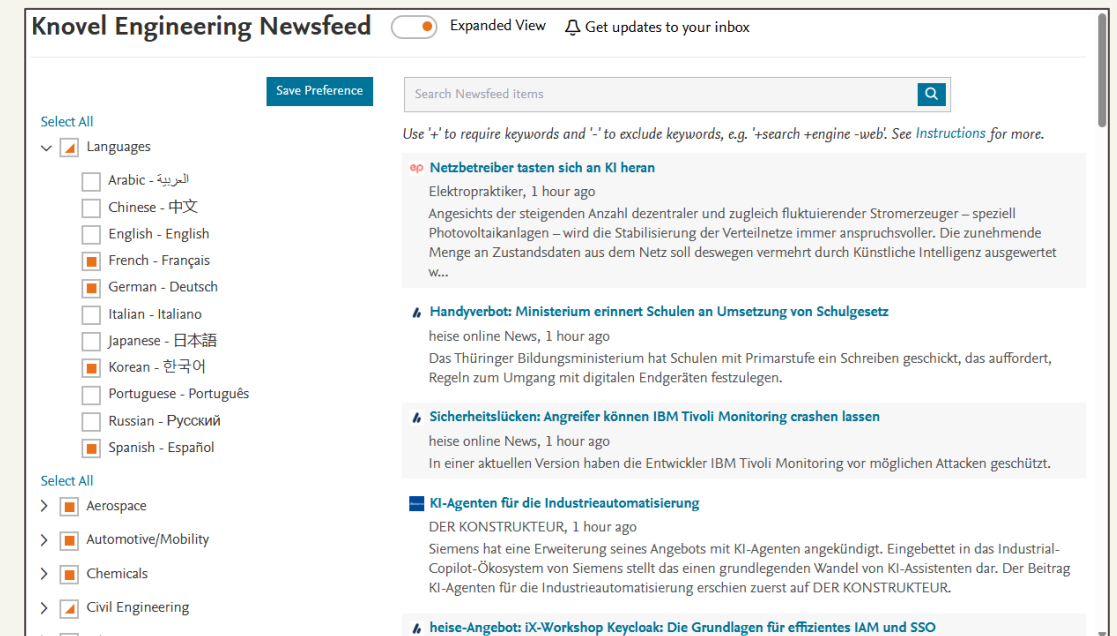


Engineering newsfeed – Stay Informed, Stay Ahead

Knovel's Engineering Newsfeed delivers curated content from **180+ trusted sources** including IChemE, AIAA, NY Times, Plastics Today, and IEEE Spectrum. Now featuring **40+ international feeds** in German, French, Spanish, Korean, and other languages.

Key benefits:

-  Easily search across hundreds of thousands of articles
-  Newsfeeds are updated hourly and can be customized based on your interests.
-  Personalized feeds can be subscribed to for delivery daily or weekly by email.
-  Now includes non-English sources

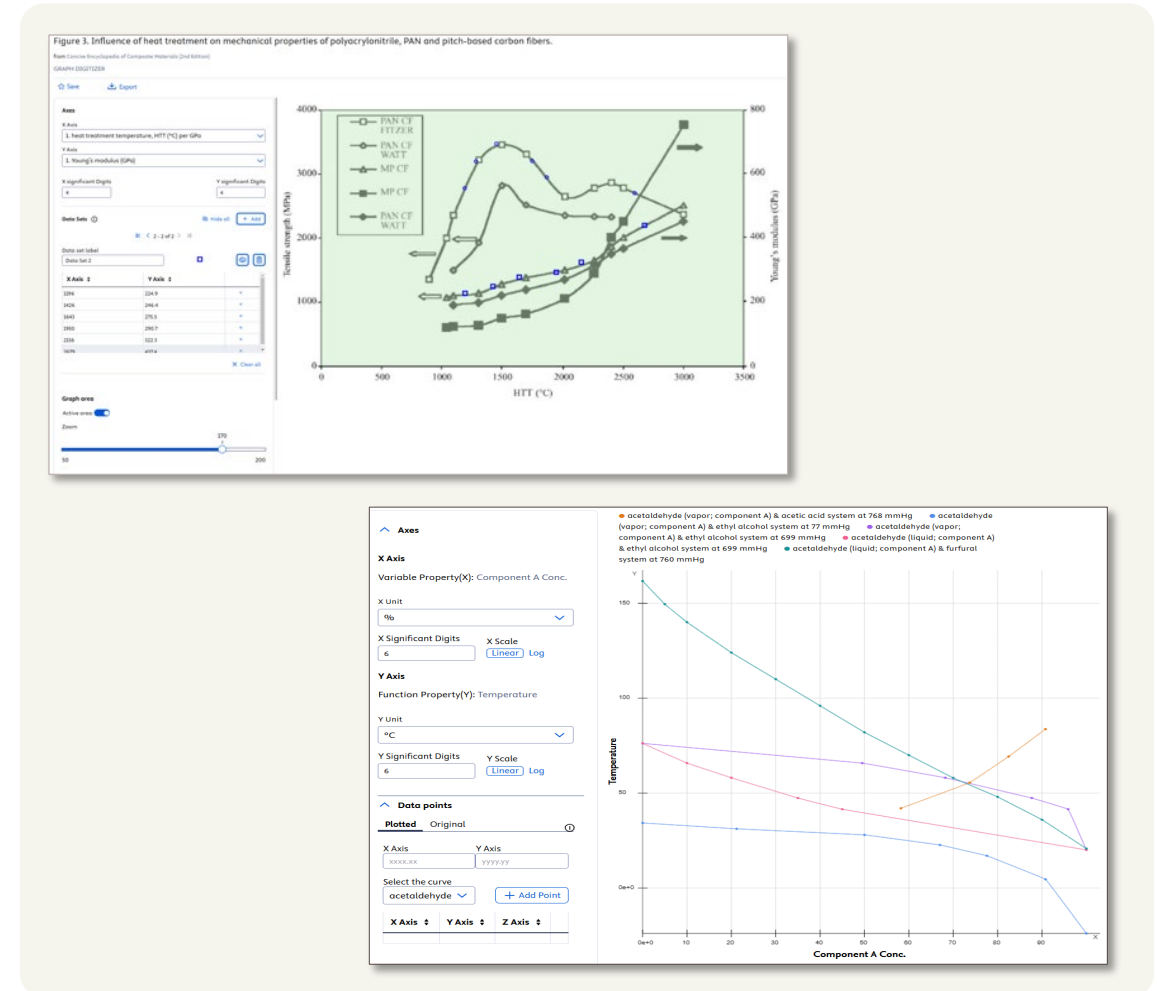


Enhanced Interactive Graph & Equation Tools

Announcing the launch of Knovel's rebuilt interactive graph tools. The new code base enables easier maintenance and faster improvements, along with enhancements to the Graph Digitizer and Equation Plotter.

Key benefits:

- ✓ Continue working seamlessly with all your previously saved graphs and equations in My Knovel
- ✓ Read and customize your graphs more efficiently with direct on-graph axis labels
- ✓ Save time entering coordinate data with dedicated X/Y input boxes
- ✓ Share and present your work professionally with improved PDF exports



Accessibility

We have made significant improvements to our site's accessibility for users with disabilities, enhancing support and effectively communicating our current capabilities and future plans.

Key highlights about our accessibility updates:

-  **Site Accessibility:** Enhancements to improve compatibility with screen readers and keyboard navigation.
-  **New Viewer:** An improved reading experience featuring support for screen readers and content sourced from structured EPUB files.
-  **Accessibility Statement:** A dedicated page detailing Knovel's commitment to accessibility, including known issues and links to our VPAT.

View our updated VPAT here:

https://service.elsevier.com/app/answers/detail/a_id/29745/supporthub/knovel/kw/vpat/

Knovel Accessibility Statement

Last updated on July 16, 2025

At Knovel, we are dedicated to ensuring web accessibility by providing an optimized experience for individuals with disabilities, including auditory, cognitive, physical, speech, and visual impairments.

We strive to comply with the Web Content Accessibility Guidelines (WCAG) 2.1, established by the World Wide Web Consortium (W3C), as well as the U.S. Section 508 Standards of the Federal Rehabilitation Act. Additionally, we aim to meet similar accessibility standards implemented globally.

For a detailed overview of Knovel's compliance with WCAG 2.1 and Section 508 criteria, please refer to our [Voluntary Product Accessibility Template \(VPAT\)](#). Our latest accessibility conformance report was updated in November 2024.

[Download our latest VPAT](#)

Knovel innovations

What to look forward to

Introducing Knovel AI

New AI-powered search features are in development to enhance search and discovery and provide improved responses for your teaching, learning and research work.

Key highlights of Knovel AI:

- ✓ Save time and find precedents faster with natural language querying.
- ✓ Protect IP and rely on Elsevier's high security standards and responsible AI principles
- ✓ Search summaries are always based on trusted Knovel content, with direct quotes and links back to the source for context and validation

Knovel 25

Support Center Welcome Chiara Leoni

Home > Search: What does ASHRAE 55 standard talk about thermal comfort

ASHRAE 55 OR "ANSI"ASHRAE Standard 55" OR "Standard 55") AND ("thermal

Include Concept Synonyms Expand Query Advanced Search

Show summary steps Not happy with the summary? Edit the query and regenerate.

Summary

Here's a structured summary of the search results focused on thermal comfort and ASHRAE Standard 55:

Overview of Thermal Comfort

According to [LEED v4 Practices](#), "thermal comfort is a state of well-being that almost defies definition. It involves temperature, humidity, and air movement among other things."

Key Comfort Parameters

Based on [ASHRAE Handbook](#), there are six primary factors affecting thermal comfort:

- Four Environmental Factors:
- Ambient air temperature

Show more

FILTER BY

- Content Type Apply
- Chapter (3)
- Industry
- Date
- Author

External Links

Compendex from Engineering Village

1-3 of 3 Results Sort By Relevancy Include out of subscription results

19.1 Operational Envelope Latest edition Save

CHAPTER • From Gas Turbines - A Handbook of Air, Land and Sea Applications (2nd Edition) (2015) >

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, troubleshooting, and feeding surrogate models. The design space can be better understood with plots of variables against each other. This can reveal that some variables ... More

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Engineering Village

Journals Conferences Standards

Not your everyday job Understanding centrifugal fans

Mcelwee, Christopher; Gustafson, Tom;

(2006) TAB Journal (1995) Plant Engineering ...

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9.3.6 The Weld Rebuild Method for Tenons Save

CHAPTER • From Turbine Steam Path - Maintenance and Repair, Volume 2 (2002) >

9. Damage Mechanisms Arising from Operation and Refurbishment Techniques for Rotating Components >

9.3 Coverband Damage, Repair, and Refurbishment Methods

Troubleshooting and Repair—Volume Two 380 Fig. 9.3.16—The raw deposited weld from robotic rebuild. C h r o m a l o y

Fig. 9.3.17—The tenons of Figure 9.3.16 after finish machining. C h r o m a l o y The Repair of Rotating ... More

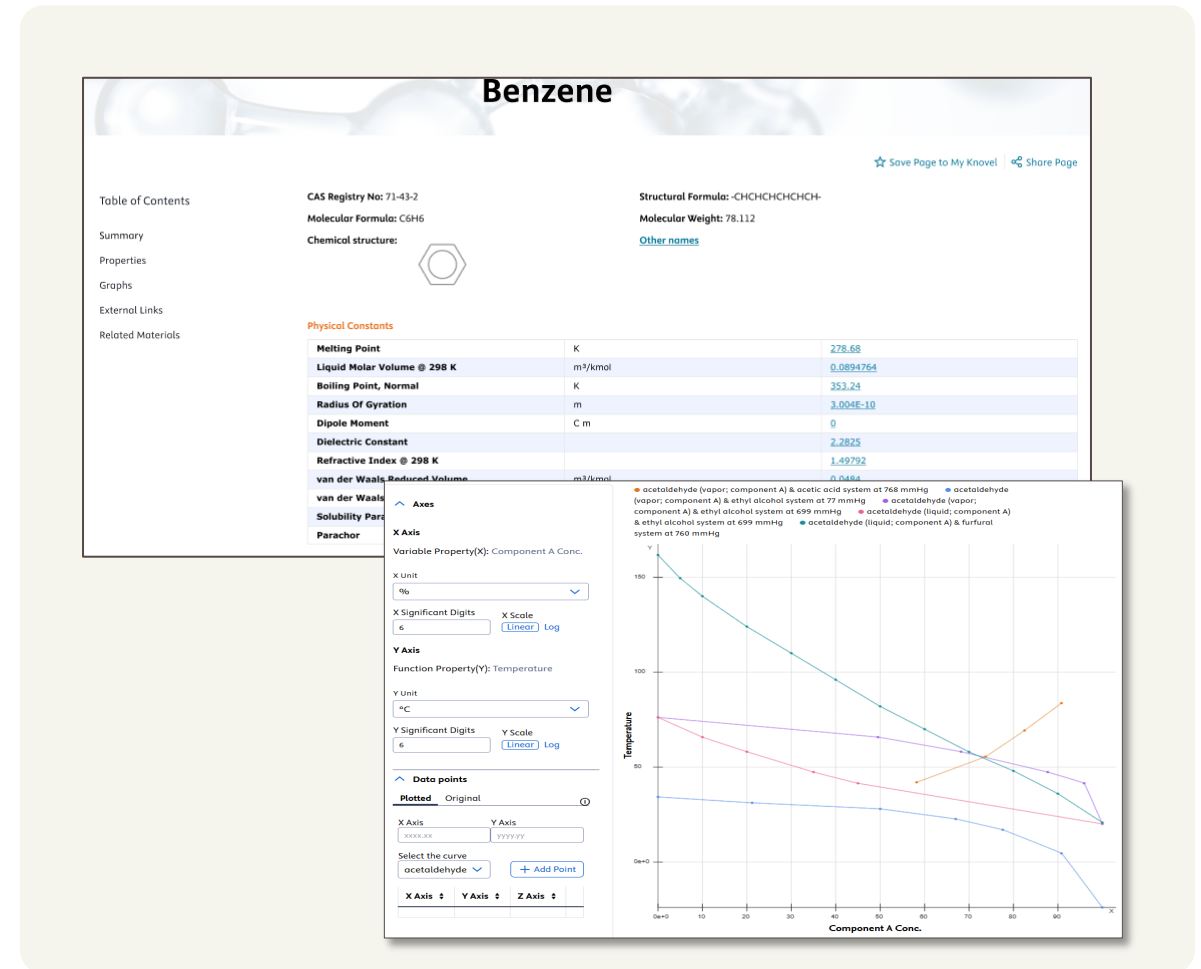
Feedback / Improve Knovel

Materials Explorer - Find new materials faster

In 2025, Knovel is enhancing its materials data capabilities to streamline the materials research and selection process. The improved organization and accessibility of materials data will help you efficiently discover material properties, make informed comparisons and find the right materials for your projects—all seamlessly integrated into your regular Knovel workflow.

Key highlights about Materials Explorer:

- **Materials first view of properties data:** discover materials data faster and more directly
- **Compare materials:** New graph tools allow for comparison of materials for the same properties



Let's shape
progress *together*

Please email m.bracha@elsevier.com
with any questions



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