Elsevier’s Engineering and Geosciences solutions – Supporting you and your users

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Identify the Problem

What types of information do engineering faculty, researchers and students need?

1. Identify Criteria & Constraints
2. Brainstorm Solutions
3. Select an Approach
4. Explore Possibilities
5. Build Prototype and Refine Design
6. Identify the Problem

What types of information do engineering faculty, researchers and students need?
Identify the Problem

Explore Possibilities

Brainstorm Solutions

Build Prototype and Refine Design

Select an Approach

Processes
Properties data
Equations

What types of information do engineering faculty, researchers and students need?

Standards & codes

Identify Criteria & Constraints

Journals
Papers
Conference proceedings
Patents
Dissertations

Handbooks
Reference works
Case studies
Models
Manuals

Best practices
Methods
Analysis
Simulation

Knovel

Knovel

Knovel

Knovel

Engineering Village

Geofacets

Knovel

Engineering Village
What is Engineering Village?

A specialized Abstracting & Indexing (A&I) research platform with 12 databases focused on providing the content and intelligence that engineering researchers need to perform in their field.

www.engineeringvillage.com
Indexing drives precision search and retrieval

Example:

An engineer wants to evaluate peer-reviewed literature on rechargeable batteries.

They need to survey all recent publications and don’t want to miss anything.
When you have Compendex on Engineering Village...

Engineer is directed to term “Secondary batteries” in Thesaurus Search on Engineering Village and retrieves needed results.
When you don’t have Compendex on Engineering Village

Engineer would need to craft a 2.5 page long search query to equal the power of the Ei Compendex Thesaurus
First Choice for Serious Engineering Research

Top 5 Reasons to Use Engineering Village

1. Improves Research Success
2. Saves Time
3. Easy To Navigate
4. Helpful Search Features
5. Comprehensive Results
Numerical Search – NEW!

**User Problem:** Engineering documents contain valuable numerical information. How do researchers reduce their answer set to a more manageable size and find documents written in a myriad of numerical values?

**Answer:** Numerical Search will standardize numerical values and narrow to only those records which contain relevant numerical data.

**Value:** Highly relevant search results and saving time by quickly narrowing to the best set of documents.
First Choice for Serious Engineering Research

"every single project I have ever worked on in last 15 years has benefited from Engineering Village, as I use it for my literature review"

— Dr Olga Korostynska, Senior Lecturer, Liverpool John Moores University

Source: Dr Olga Korostynska, Senior Lecturer, Liverpool John Moores University
First Choice for Serious Engineering Research

Top 5 Reasons to Use Engineering Village

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5. Comprehensive Results
An engineering solution delivering best practice insights, material and substance property data, and validated equations through powerful search and interactive analytical tools

**Reliable, Validated Content** - Subject areas and high quality relevant content

**Optimized Search** - Easily navigate to get quick, reliable answers

**Interactive Data Analysis Tools** - Use and apply the data
Reliable, validated Content – Relevant subject areas to choose
Optimized Search for Engineers and Applied Scientists
Materials and Properties – Data Search
Interactive Data Analysis Tools

Strain-life behavior of medium-carbon steel as a function of hardness.

From Atlas of Fatigue Curves

SAE 1045

Reversals to Failure, 2Nf

Strain Amplitude, \( \alpha/2 \)

595 HB

12.76 0.02676
148.9 0.01328
1068 0.000796
19170 0.000589
194100 0.004359
8568000 0.000329

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Why Knovel?

- A trusted academic tool and provider of technical information that directly prepares students for their career.
- Used by engineers and applied scientists worldwide
- Give students a competitive advantage entering the workplace
How?

- Find data hidden in tables, graphs and equations
- Interact with data
- Find answers quickly
- Solve real world problems
• Used by best in class universities worldwide
• Tailored and continuously expanding content from trusted sources
• Improves student engagement and practical skills
• Interactivity helps to drive innovation and creativity in teaching and study
• Helps you to manage your workload and resource budgets
Questions?