Aravind Ranganathan

Graduate Assistant
Engineering Library
University of Cincinnati
r.aravind@gmail.com
Workshop Objectives

- What is Knovel?
- Content Collections
- Productivity Tools & Features
- Browse & Search in Knovel
- Knovel University Challenge
Knovel - Introduction

e-Book collection with three main components:

- Comprehensive engineering reference content
- 2000+ reference works & databases in 22 subject areas
  - Professional societies: AIAA, AIChE, ASME, NACE
- Powerful search engine
- Interactive tools
  - Normalize information across content sources
  - Interactive tables, charts, equations, plotters and graphs.
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<table>
<thead>
<tr>
<th>Adhesives, Coatings, Sealants &amp; Inks</th>
<th>General Engineering &amp; Engineering Management</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aerospace &amp; Radar Technology</td>
<td>Industrial Engineering &amp; Operations Management</td>
</tr>
<tr>
<td>Biochemistry, Biology &amp; Biotechnology</td>
<td>Mechanics &amp; Mechanical Engineering</td>
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<tr>
<td>Ceramics &amp; Ceramic Engineering</td>
<td>Metals &amp; Metallurgy</td>
</tr>
<tr>
<td>Chemistry &amp; Chemical Engineering</td>
<td>Oil &amp; Gas Engineering</td>
</tr>
<tr>
<td>Civil Engineering &amp; Construction Materials</td>
<td>Pharmaceuticals, Cosmetics &amp; Toiletries</td>
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<tr>
<td>Earth Sciences</td>
<td>Plastics &amp; Rubber</td>
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<tr>
<td>Electrical &amp; Power Engineering</td>
<td>Safety &amp; Industrial Hygiene</td>
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<tr>
<td>Electronics &amp; Semiconductors</td>
<td>Sustainable Energy &amp; Development</td>
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<td>Environment &amp; Environmental Engineering</td>
<td>Textiles</td>
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<tr>
<td>Food Science</td>
<td>Transportation Engineering</td>
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</table>
Interactive Tools (1/2)

- **Periodic Table of Elements**
  - Wealth of data for all known elements
  - Atomic masses and no., electronic config., valencies, historical backgrounds, isotopic compositions, basic properties, etc.

- **Unit Converter**
  - Convert values from one unit of measurement to another
  - Contains approximately 800 different units

- **Knovel Reader**
  - Convenient viewing of HTML text
Interactive Tools (2/2)

- **Interactive Tables**
  - Act as spreadsheet
  - Hide Clutter
  - Pull columns of interest together
  - Sort and Filter rows
  - Print / Export relevant data

- **Interactive Graphs**
  - Accurately assess coordinate values
  - Change units, No. of significant digits
  - Print or Export
Browse & Search

Browse:
- by All Titles, new Titles, My Subscription, etc.

Search:
- Case insensitive
- NEXT Proximity: “polyphenylene oxide”
- NEAR Proximity: polyethylene mustard
- AND, OR, NOT: “acetic acid” AND “specific heat”
- Use (): (polypropylene OR (polyethylene NOT polyester*))
- Concatenate hyphenated words: ultrahigh molecular weight
-Wildcard: * for truncation. (Not inside “...”, Cannot use ?)
- GET Search
  - Combine Keyword and Numeric criteria
Optimized Search Engine

More relevant results:

- Searches text, tables and graphs
- Smart about Units
- Understands Technical Synonyms
- Discriminates between properties
- Limit results faster

Eg: Search for “polyester” includes results with “polyethelyne terphthalate (PET)”
Resources

- Workshop resources:
  [http://engrlib.uc.edu/workshops/knovel/](http://engrlib.uc.edu/workshops/knovel/)
- Knovel
- Knovel Sample Book
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Knovel University Challenge

- **URL:** [http://info.knovel.com/challenge/](http://info.knovel.com/challenge/)

- Solve 3 problems with Knovel
- Win (1) Kindle, (2) Nintendo Wiis, (4) iPod Nanos, (6) iTunes Gift Cards.
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Questions?
Thank you for attending the workshop

Remember to take the survey!!