

Knovel

Aravind Ranganathan

Graduate Assistant
Engineering Library
University of Cincinnati
raravind@gmail.com

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Workshop Objectives

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

Knovel - Introduction

- e-Book Collection
- 30+ leading publishing partners: McGraw Hill, Wiley, Springer, Elsevier
- Knovel Library: About 1151 titles currently in subscription
- Knovel Plastics: Over 180 Essential titles
- Full-text content:
 - Fully searchable
 - *Integrated with interactive productivity tools*
- Searchable from [UC Library Catalog](#)

Content Collections

- 18 industrially important Subject Areas in the fields of:
 - Chemistry and the Life Sciences
 - Materials
 - Engineering

Engineering:

Aerospace & Radar Technology

Civil Engineering & Construction Materials

Electrical & Power Engineering

Environmental & Environmental Engineering

General Engineering References

Mechanics & Mechanical Engineering

Oil & Gas Engineering

Semiconductors & Electronics

Life Sciences & Chemistry:

Biochemistry, Biology & Biotechnology

Chemistry & Chemical Engineering

Food Science

Pharmaceuticals, Cosmetics & Toiletries

Safety, Health & Hygiene

Materials:

Adhesives, Coatings, Sealants & Inks

Ceramics & Ceramic Engineering

Metals & Metallurgy

Plastics & Rubber

Textiles

Productivity Tools (1/3)

- **Interactive Tables**

- Find and customize data as in a spreadsheet (MS Excel)
- Selecting rows, Sorting, Finding and Filtering data, Hiding columns, etc.

- **Tables with Equation Plotter**

- Plot points on a graph curve
- Corresponding coordinates automatically appear in the Plotter's X-Y table.

- **Graph Plotter**

- Displays multiple curves (up to 12) on the same graph
- Eg: Compare tensile strength vs. exposure time for 2 or more exposure temperatures.

Productivity Tools (2/3)

- **Graph Digitizer**
 - Digitize 1 or more curves by plotting points on graph
 - Automatically displays corresponding coordinates
- **Phase Diagram Viewer**
 - Determine phase composition in atomic or weight percent on the phase boundaries for binary systems, e.g., alloys
 - Lever Rule calculator available to determine phase fractions in the diagram
- **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.

Productivity Tools (3/3)

- **Excel Spreadsheets**
 - Calculate various chemical process parameters
- **Unit Converter**
 - Convert values from one unit of measurement to another
 - Contains approximately 800 different units
- **Knovel Reader**
 - Convenient viewing of HTML text

Browse & Search

Browse:

- by Subject Areas, by Title alphabetically, using publisher info.

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 ?)
- Advanced Search
 - Combine Keyword and Numeric criteria
 - Currently limited to two Booleans per query

Resources

- Workshop resources:
<http://engr.lib.uc.edu/workshops/knovel/>
- Knovel
- Knovel Sample Book
- Knovel Tutorials (Scenarios)

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Questions?

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Thank You

Thank you for attending the workshop
Remember to take the survey !!