Knovel Library: Preparing your Technical Users

Inforum 2007

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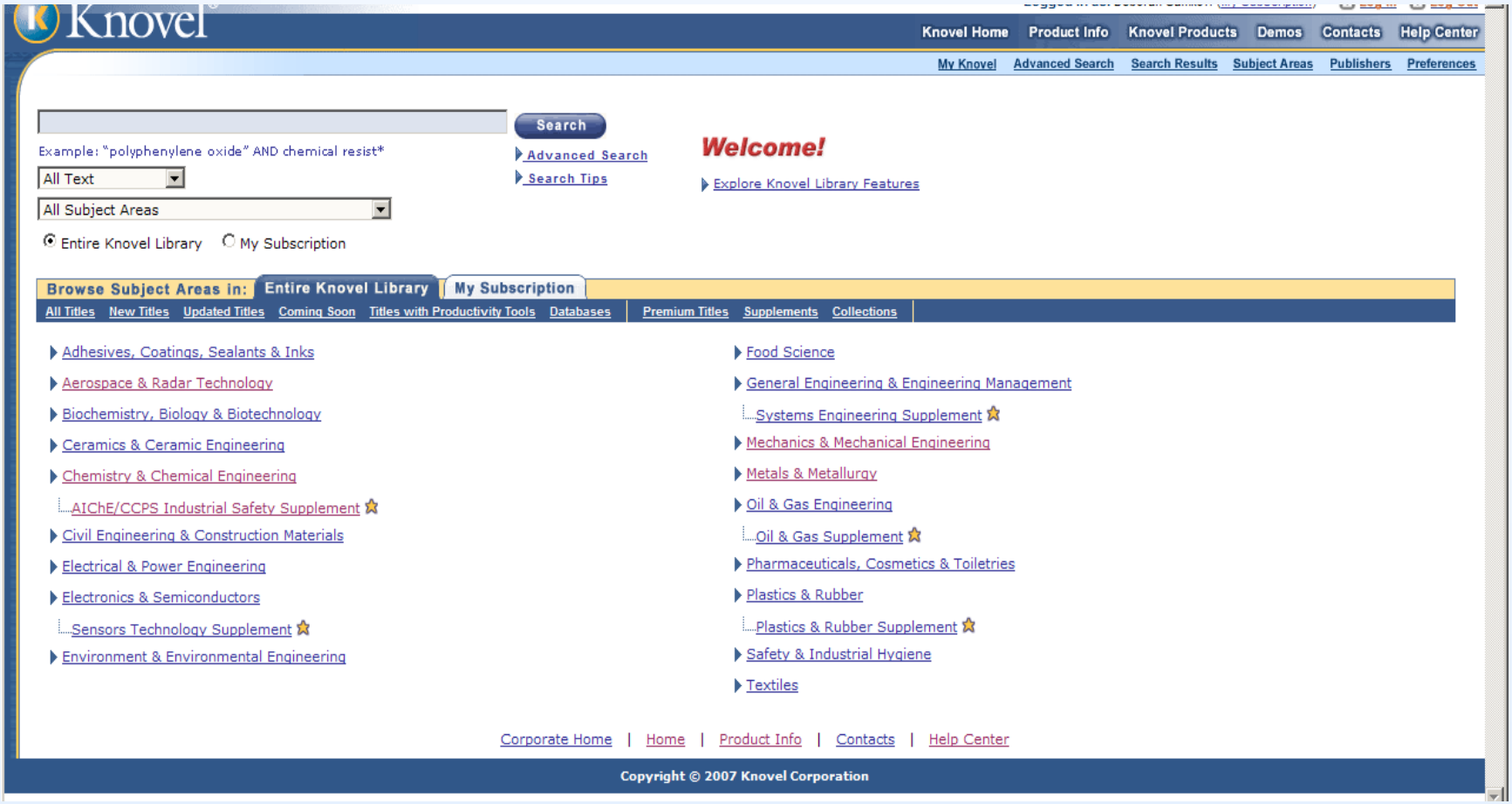
Director of International Sales
Knovel Corporation
May 24,2007

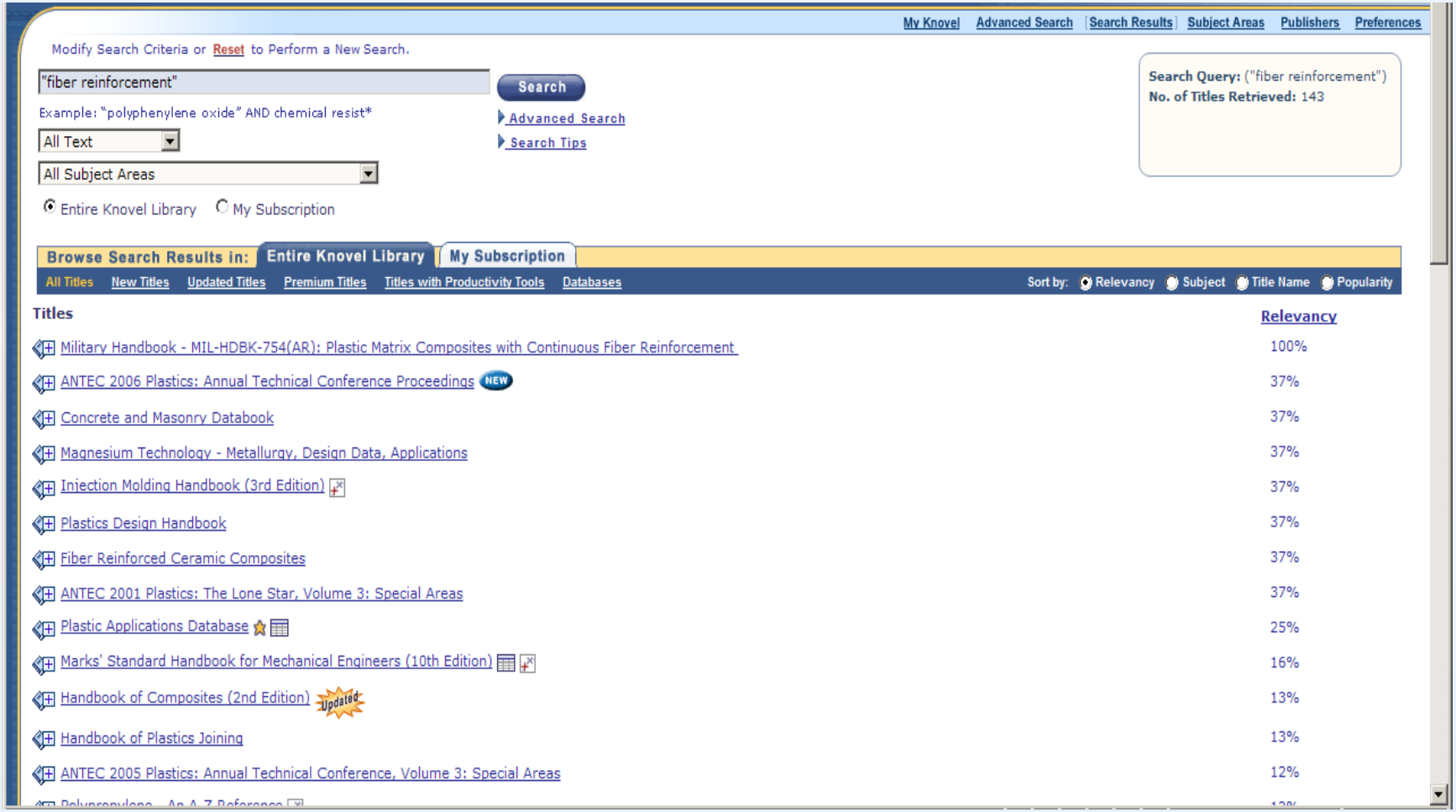
Knovel Features

- Knovel is the worlds leader with the most exhaustive aggregated collection of engineering and science content and tool set.
- Knovel has 1200 titles and works with over 40 publishers and learned societies to provide comprehensive and reliable content.
- Knovel includes additional features
  - equation plotters
  - graph digitizers
  - interactive tables
  - export of data from all interactive content, WYSIWYG

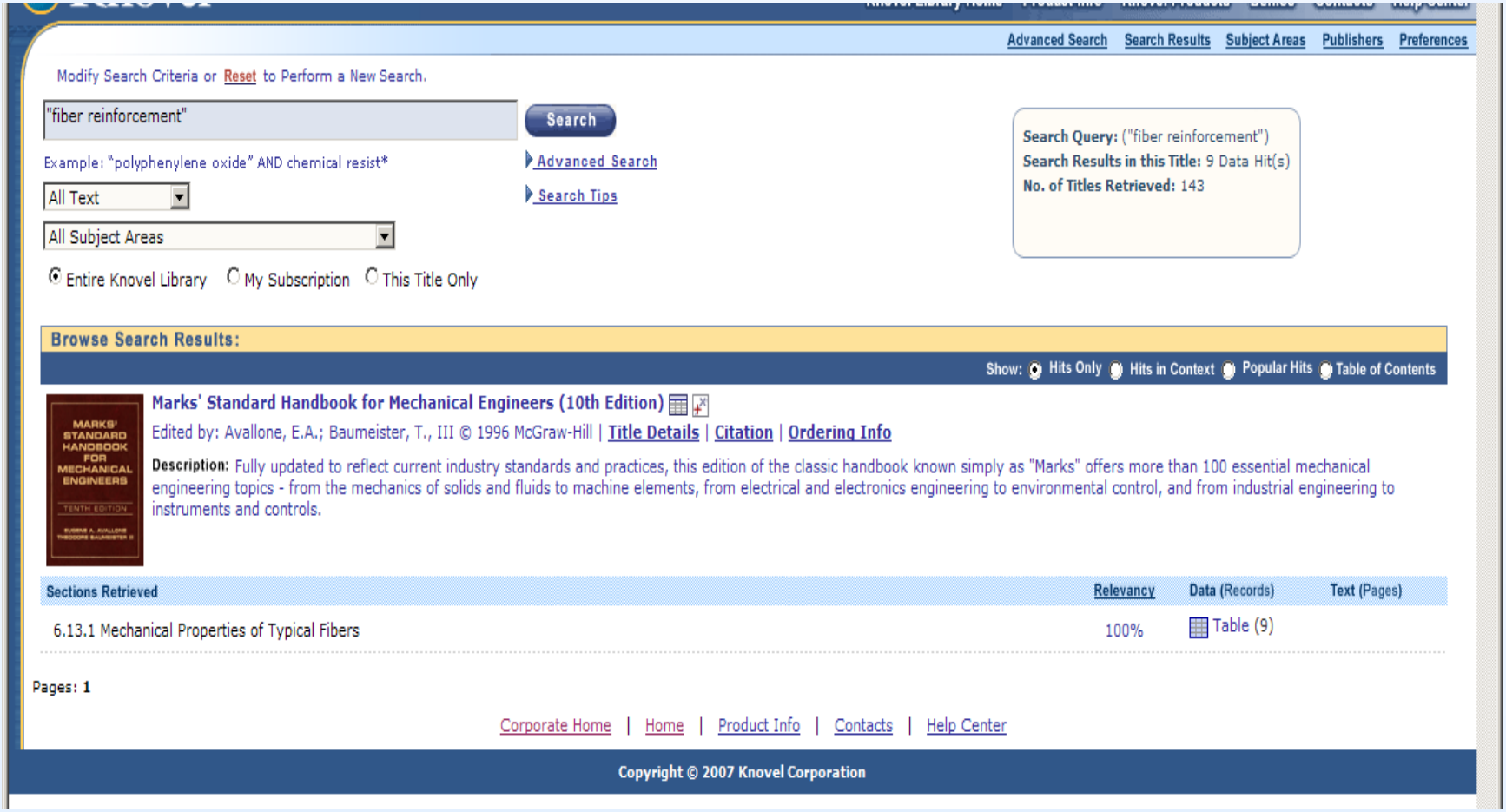
Full-Text Search



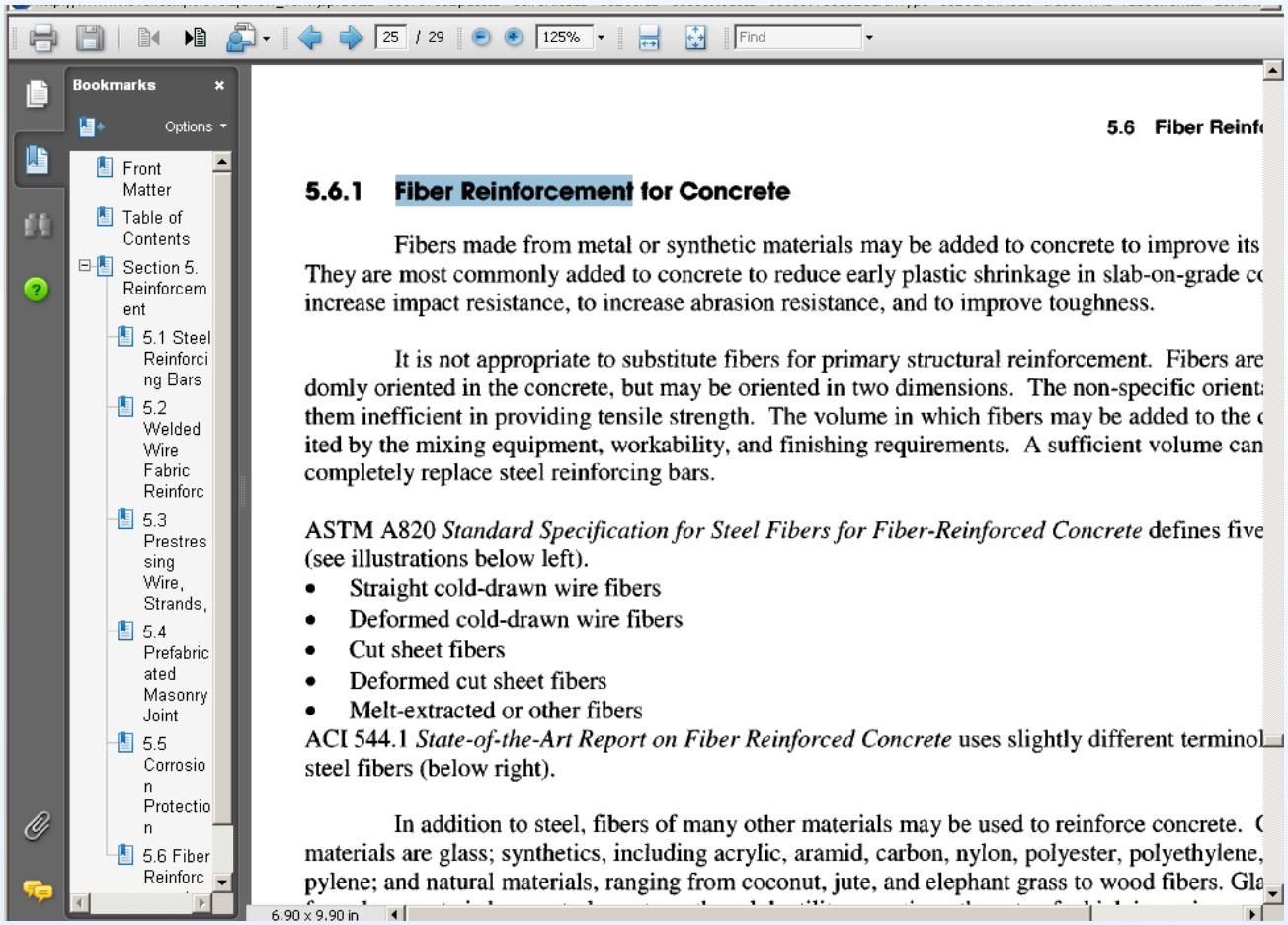
Full-Text Search Title Hits



Full-Text Search



Text Hit With Highlighting

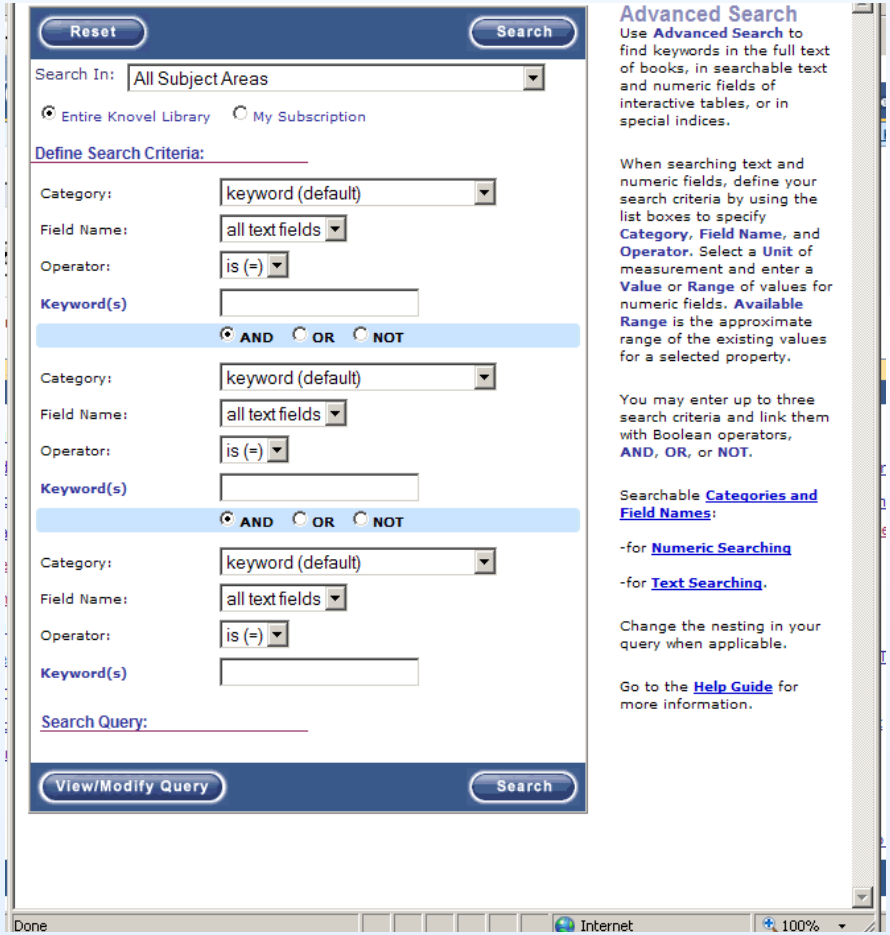


Fielded / Advanced Search

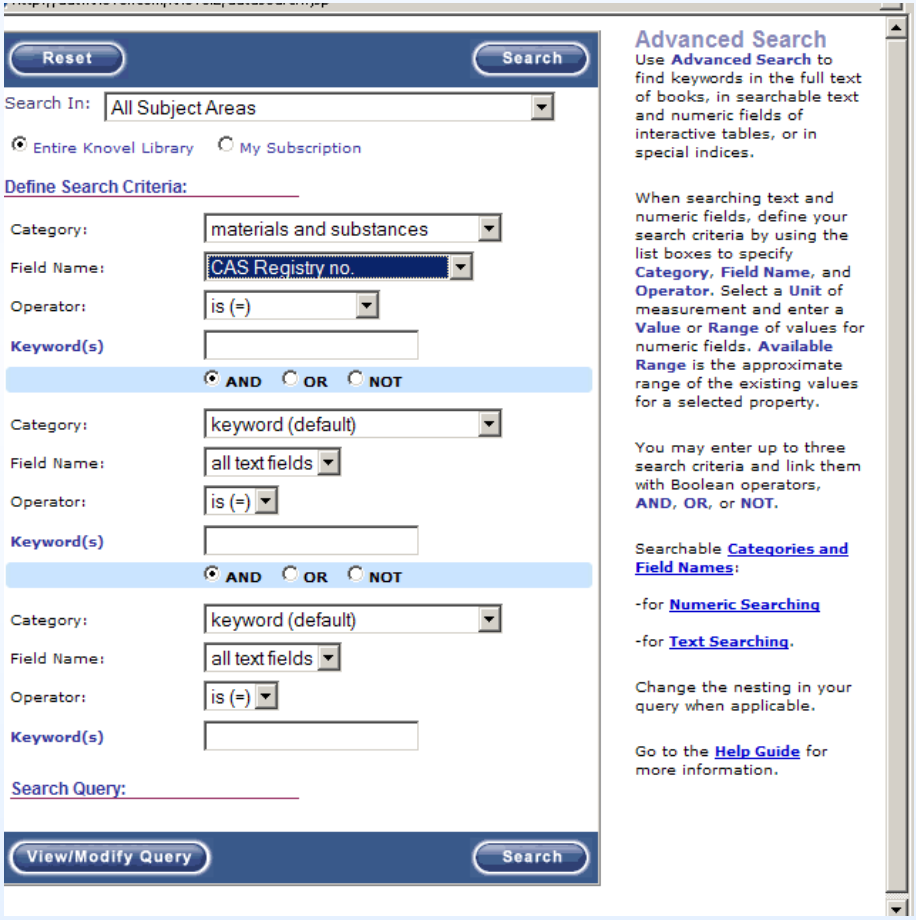
- Fielded search supports searching up to three (3) data fields simultaneously
- Fields linked by Boolean operators NOT, AND, OR
- Fielded search may be accessed by clicking on either of the "Advanced Search" links on any page in the Knovel Library

Accessing Fielded Search

Fielded Search Input Window



Fielded Search Query Input



Fielded Search Table Hits

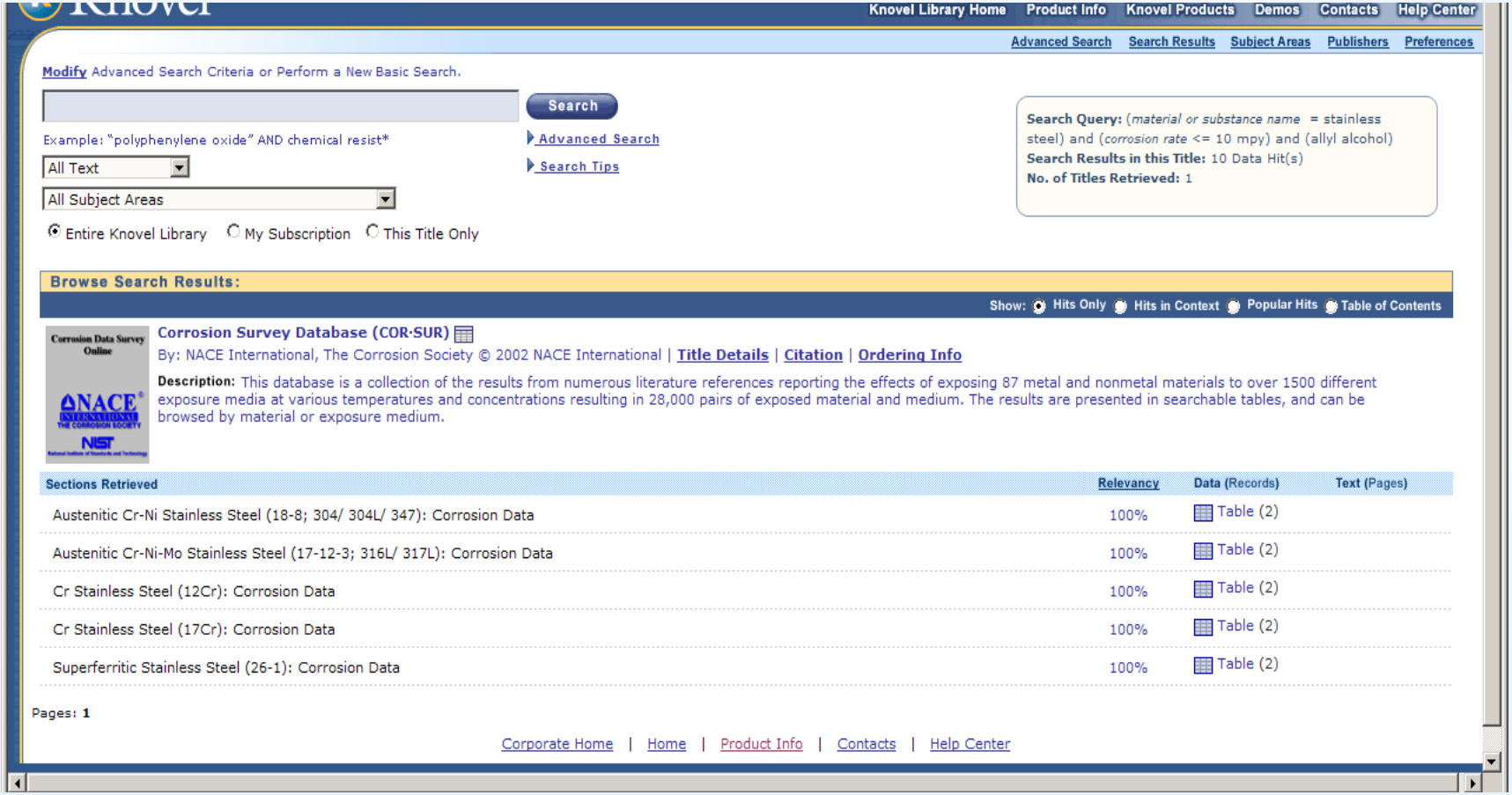
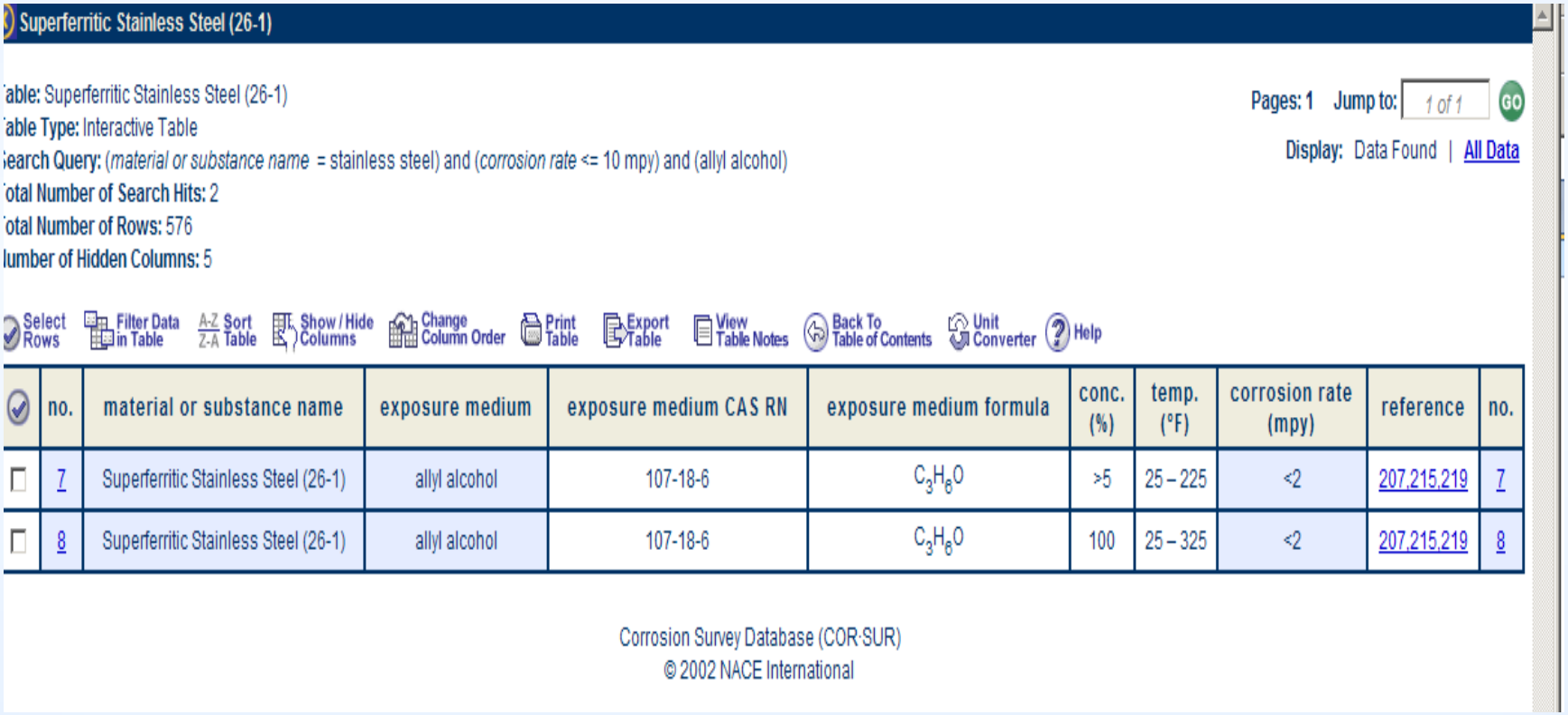


Table Hit Filtered by Search Query Criteria



Superferritic Stainless Steel (26-1)

Table: Superferritic Stainless Steel (26-1)
Table Type: Interactive Table
Search Query: (*material or substance name* = stainless steel) and (*corrosion rate* <= 10 mpy) and (allyl alcohol)
Total Number of Search Hits: 2
Total Number of Rows: 576
Number of Hidden Columns: 5

Pages: 1 Jump to: 1 of 1 GO
Display: Data Found | All Data

Select Rows | Filter Data in Table | A-Z Sort Z-A Table | Show / Hide Columns | Change Column Order | Print Table | Export Table | View Table Notes | Back To Table of Contents | Unit Converter | Help

	no.	material or substance name	exposure medium	exposure medium CAS RN	exposure medium formula	conc. (%)	temp. (°F)	corrosion rate (mpy)	reference	no.
☐	7	Superferritic Stainless Steel (26-1)	allyl alcohol	107-18-6	C_3H_6O	>5	25 – 225	<2	207,215,219	7
☐	8	Superferritic Stainless Steel (26-1)	allyl alcohol	107-18-6	C_3H_6O	100	25 – 325	<2	207,215,219	8

Corrosion Survey Database (COR·SUR)
© 2002 NACE International

Interactive Table

6.13.1 Mechanical Properties of Typical Fibers

Table: 6.13.1 Mechanical Properties of Typical Fibers
Table Type: Interactive Table
Search Query: ("fiber reinforcement")
Total Number of Search Hits: 9
Total Number of Rows: 9
Number of Hidden Columns: 3

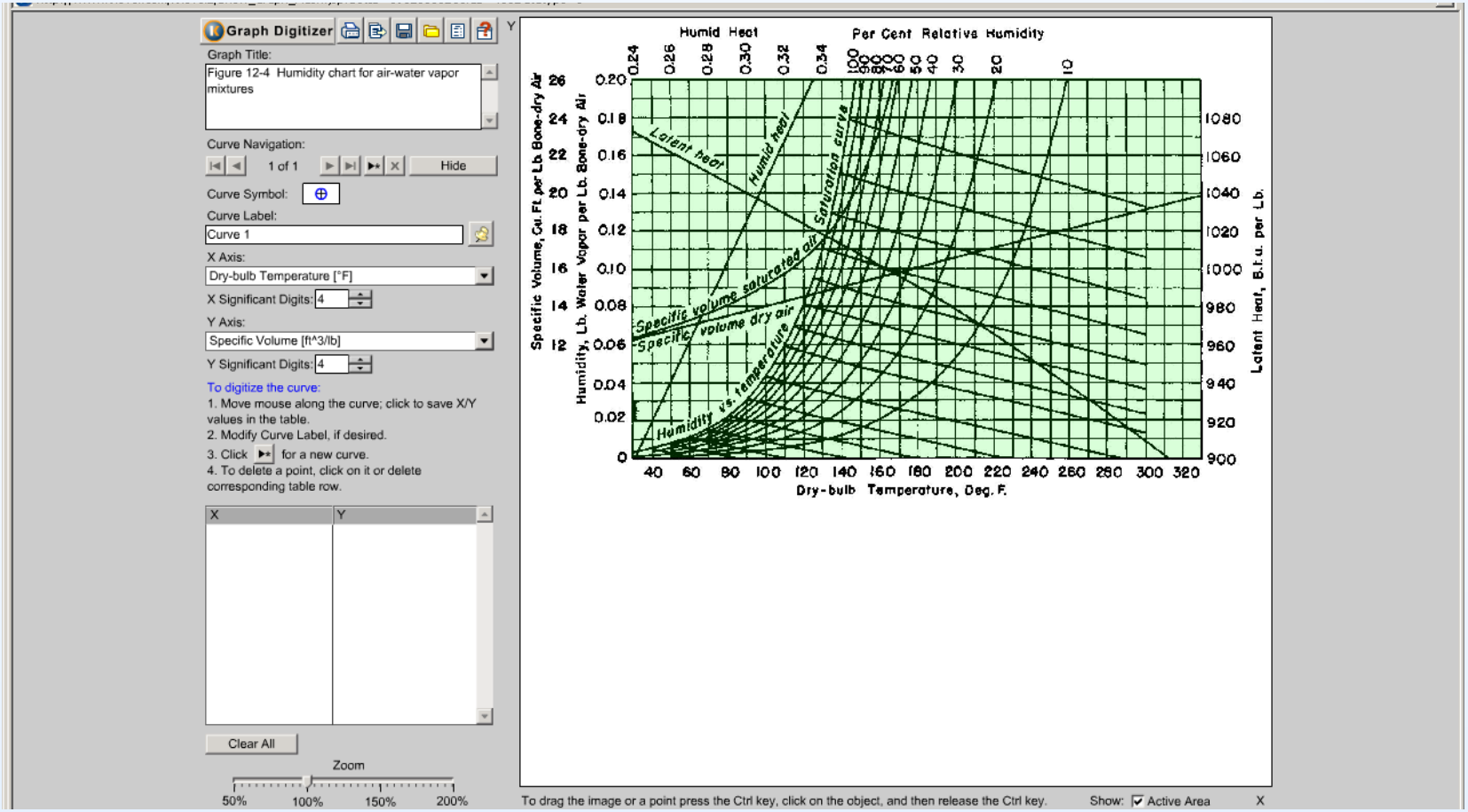
Pages: 1 Jump to: 1 of 1 GO
Display: Data Found | All Data

Select Rows | Filter Data in Table | A-Z Z-A Sort Table | Show / Hide Columns | Change Column Order | Print Table | Export Table | View Associated Text | Back To Table of Contents | Unit Converter | Help

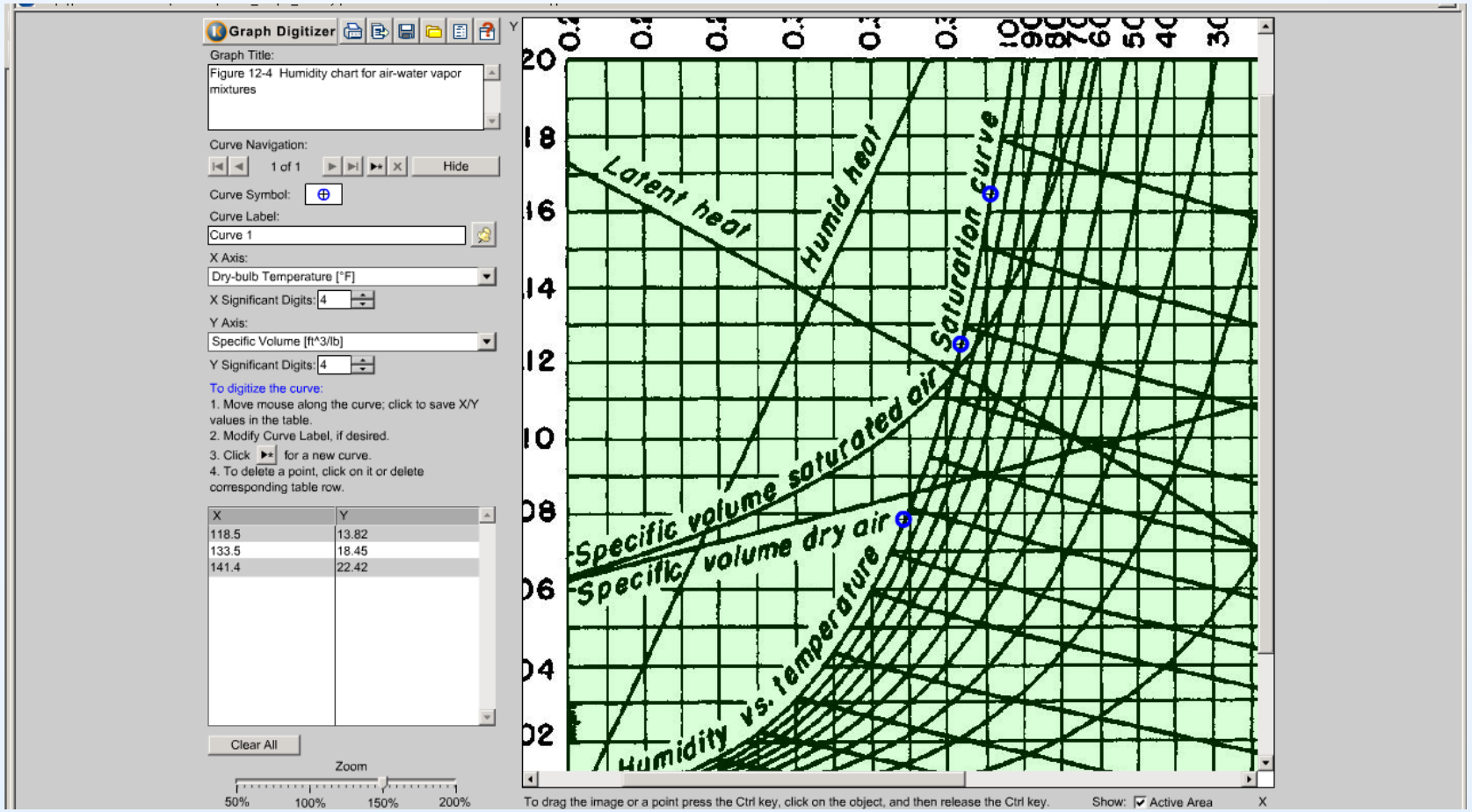
no.	material or substance name	fiber diameter (μm)	density (g/cm^3)	ultimate tensile strength (GPa)	tensile modulus (GPa)
1	E-glass fiber reinforcement	8 – 14	2.54	3.45	72.4
2	S-glass fiber reinforcement	8 – 14	2.49	4.58	86.2
3	Polyethylene fiber reinforcement	10 – 12	0.97	2.7	87
4	Aramid (Kevlar 49) fiber reinforcement	12	1.44	3.62	130
5	HS carbon, T300 fiber reinforcement	7	1.74	3.54	230
6	AS4 carbon fiber reinforcement	7	1.8	4	228
7	1M7 carbon fiber reinforcement	5	1.8	5.41	276
8	GY80 carbon fiber reinforcement	8.4	1.96	1.86	572
9	Boron fiber reinforcement	50 – 203	2.6	3.44	407

Marks' Standard Handbook for Mechanical Engineers (10th Edition)
© 1996 McGraw-Hill

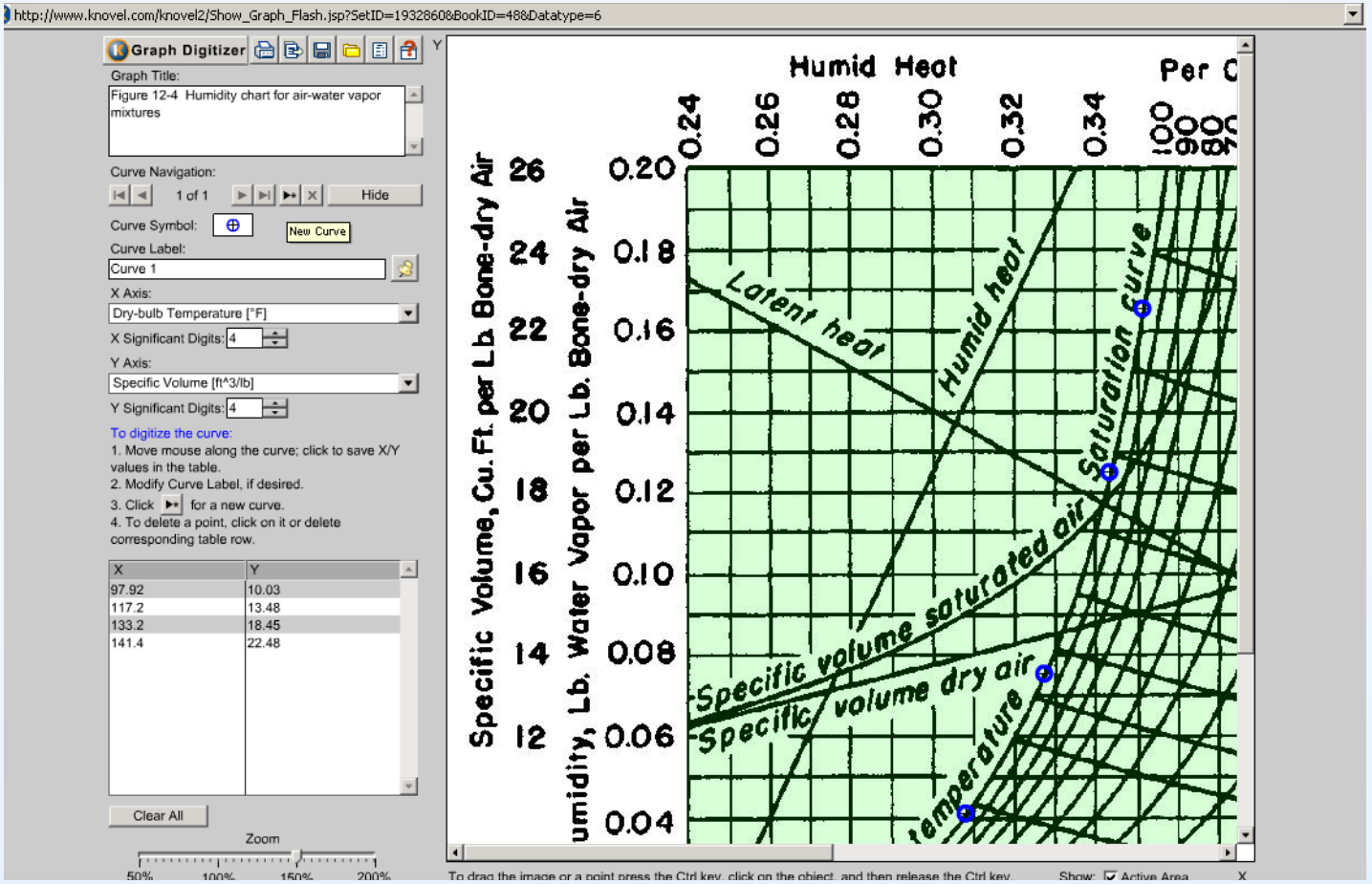
Interactive Graph Digitizer



Interactive Graph With Curve Digitized



Interactive Graph: New Curve Button



Exported Graph, With Digitized Points

fig_12-4[1].jpg - Windows Picture and Fax Viewer

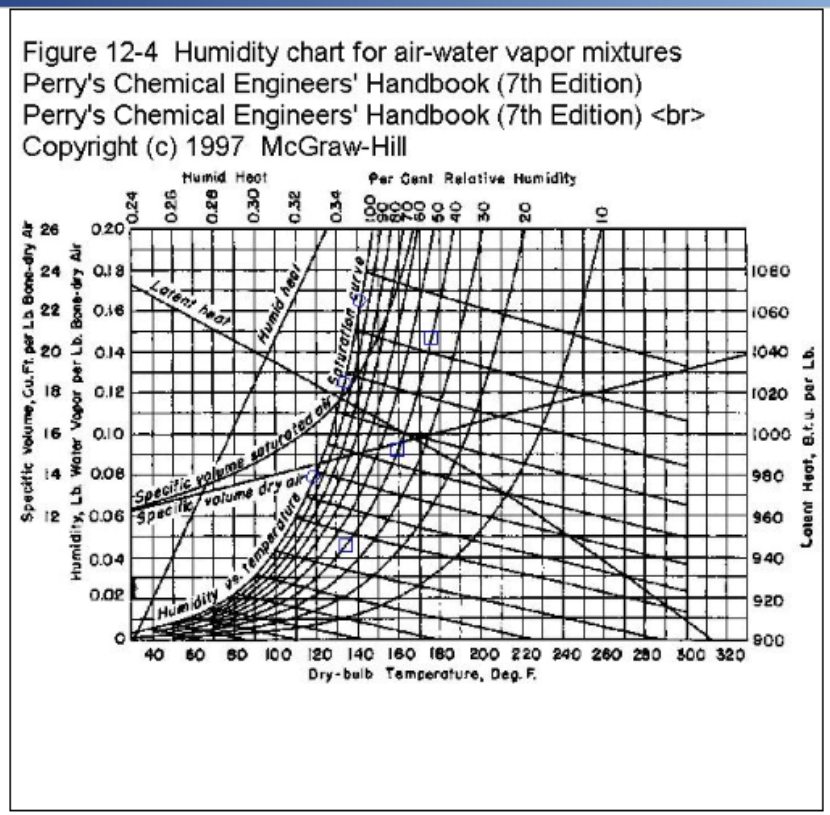


Table Hit With Equation Plotter

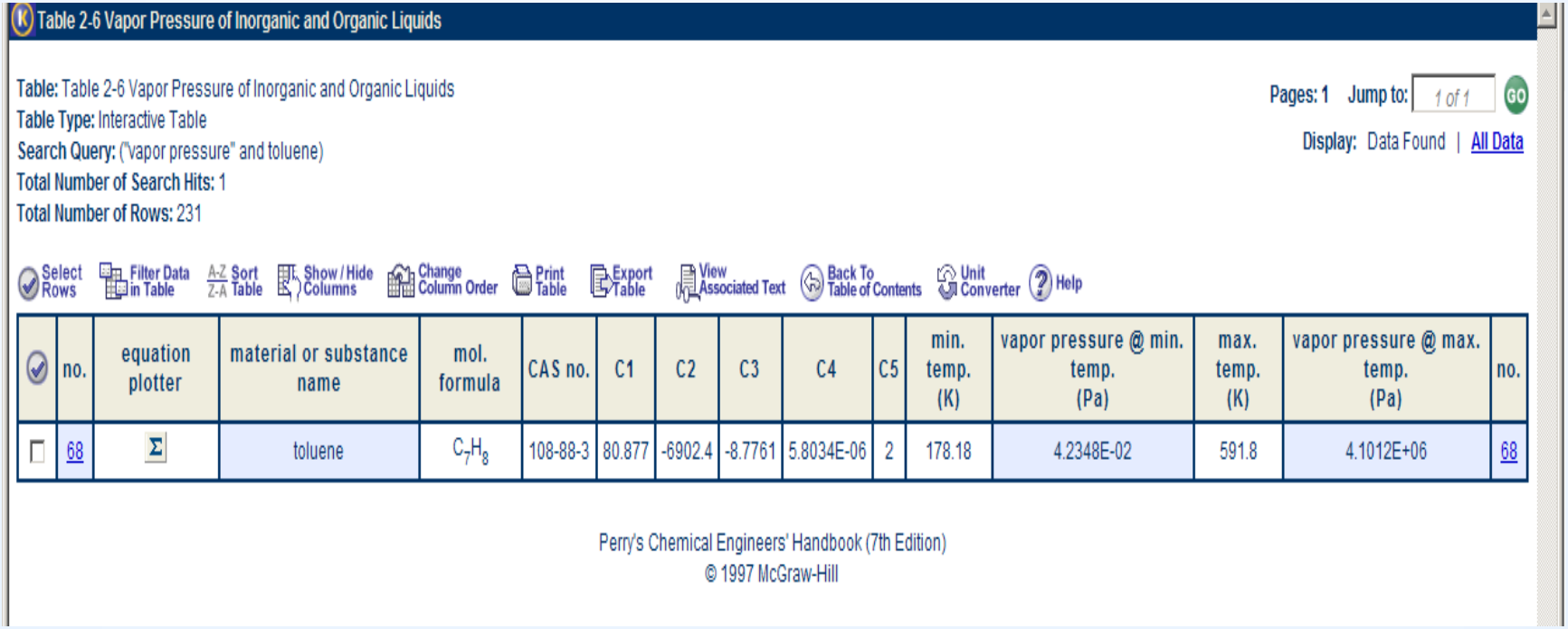


Table 2-6 Vapor Pressure of Inorganic and Organic Liquids

Table: Table 2-6 Vapor Pressure of Inorganic and Organic Liquids
Table Type: Interactive Table
Search Query: ("vapor pressure" and toluene)
Total Number of Search Hits: 1
Total Number of Rows: 231

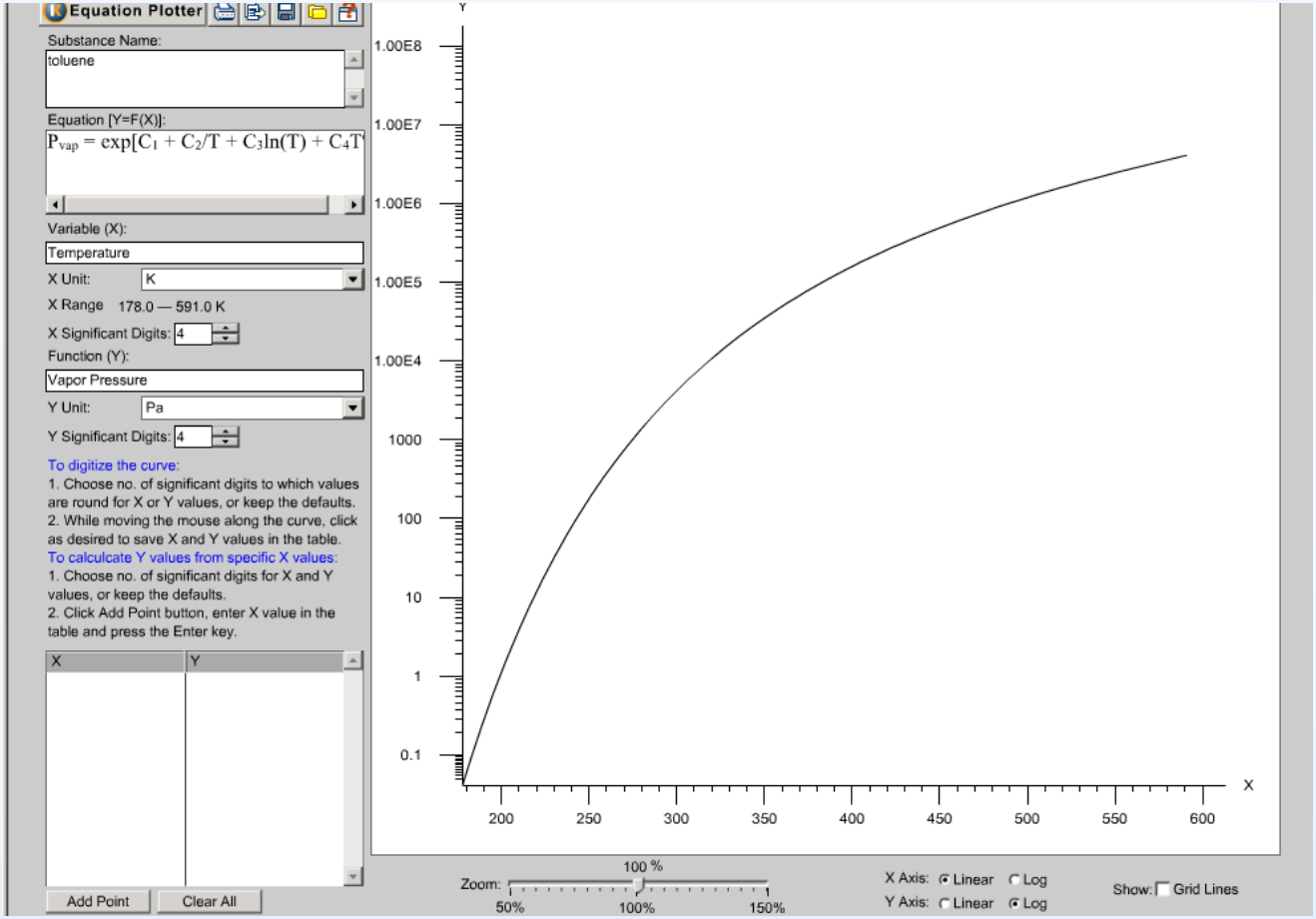
Pages: 1 Jump to: 1 of 1 GO
Display: Data Found | All Data

Select Rows | Filter Data in Table | A-Z Sort Z-A Table | Show / Hide Columns | Change Column Order | Print Table | Export Table | View Associated Text | Back To Table of Contents | Unit Converter | Help

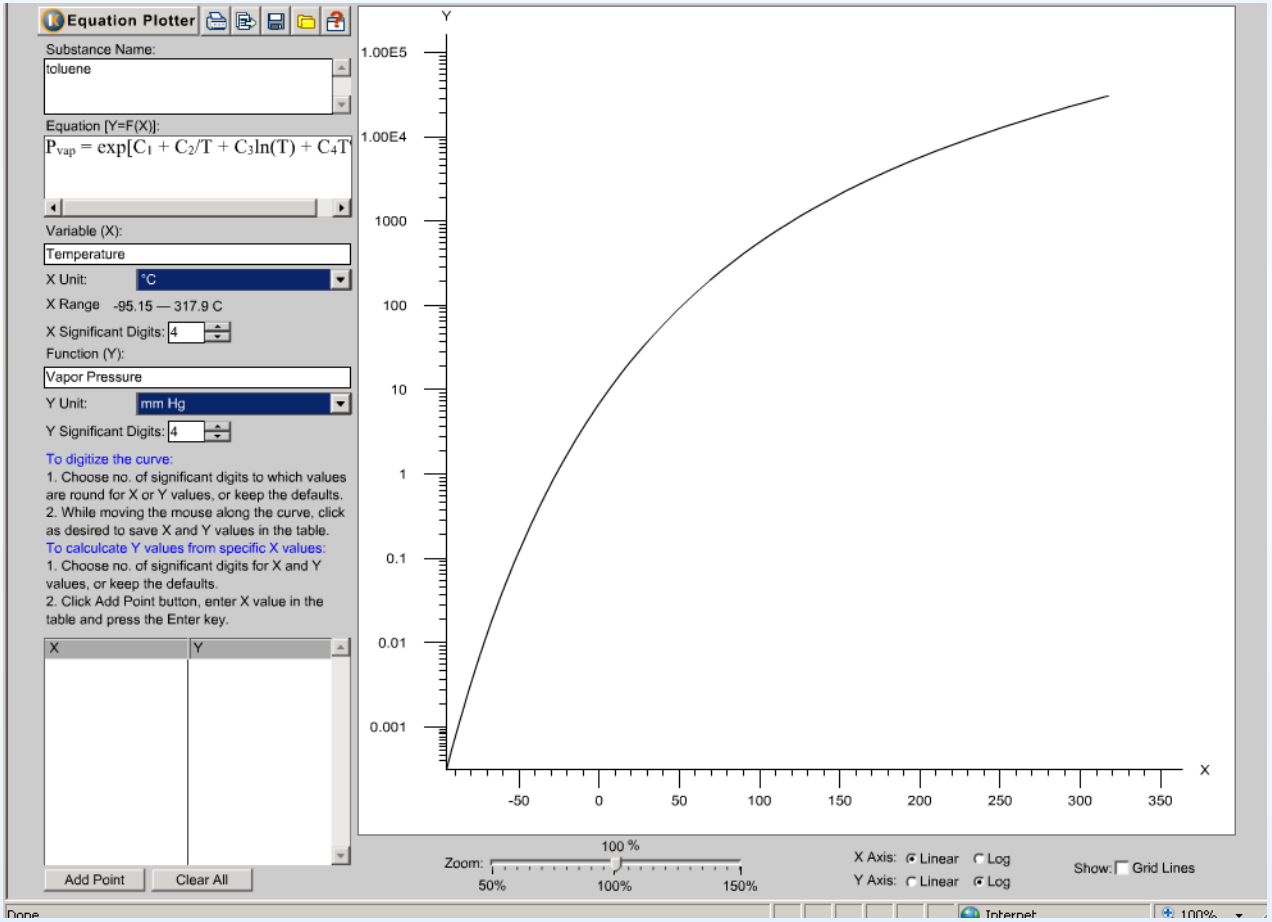
	no.	equation plotter	material or substance name	mol. formula	CAS no.	C1	C2	C3	C4	C5	min. temp. (K)	vapor pressure @ min. temp. (Pa)	max. temp. (K)	vapor pressure @ max. temp. (Pa)	no.
☐	68	Σ	toluene	C_7H_8	108-88-3	80.877	-6902.4	-8.7761	5.8034E-06	2	178.18	4.2348E-02	591.8	4.1012E+06	68

Perry's Chemical Engineers' Handbook (7th Edition)
© 1997 McGraw-Hill

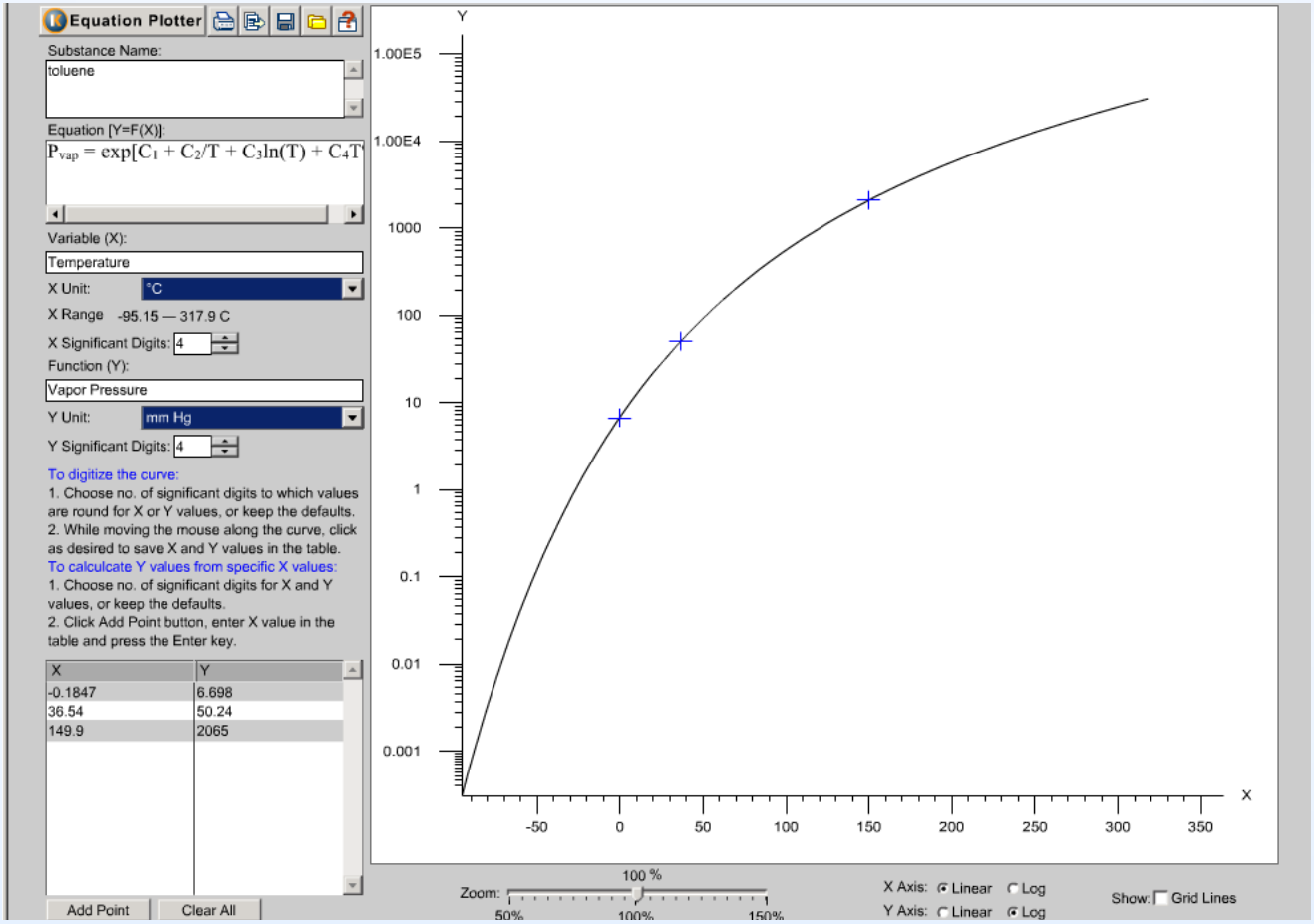
Equation Plotter Window



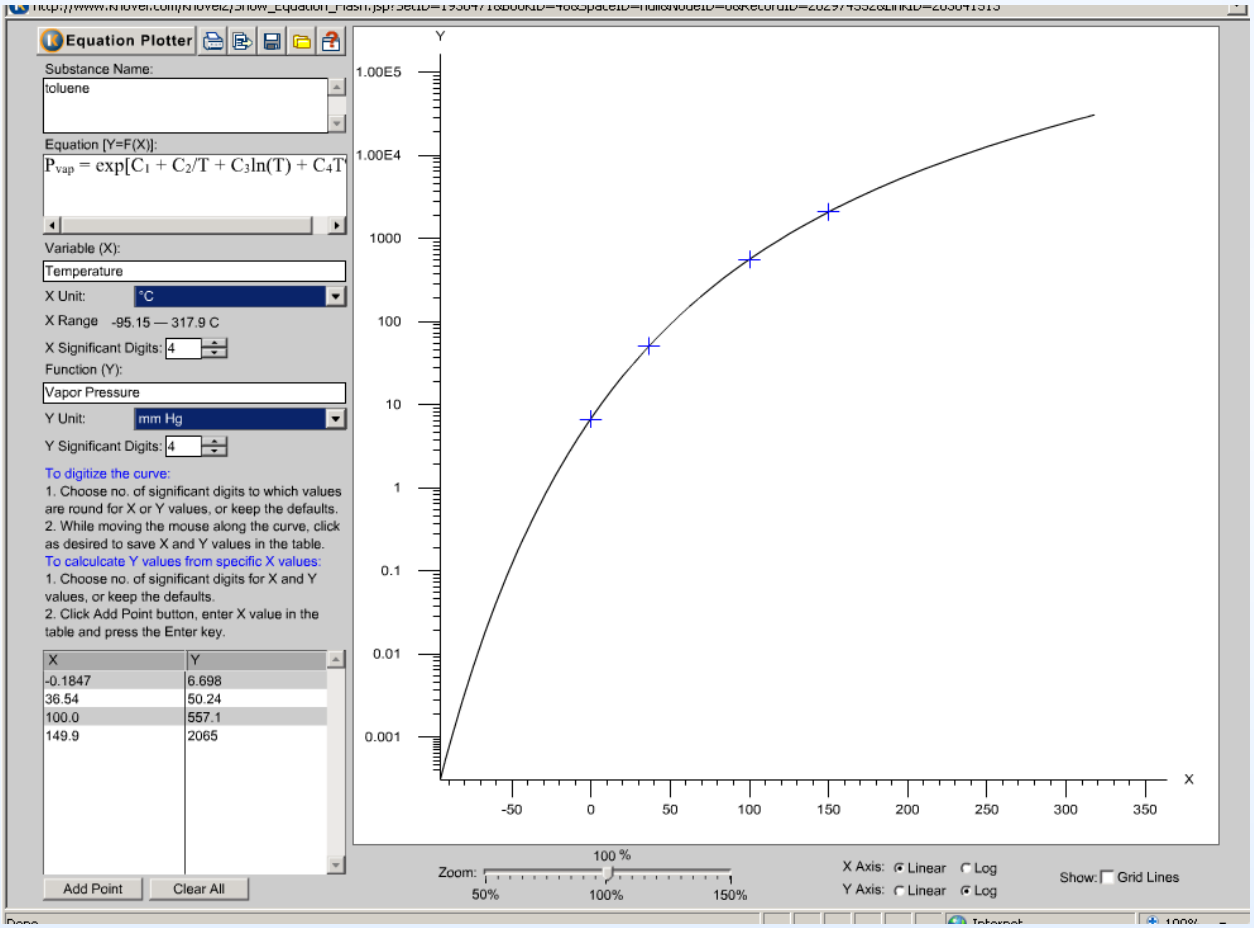
Changing Axis Display: Y Axis



Equation Plotter With Curve Points Digitized



New Point Added to Table and Curve



Coming in 2007

- 500 new titles
- New publisher agreements for major titles, stay tuned for more details
- Counter Compliant reports
- Search enhancements to allow industry standard search terms.
- Graph Digitizer enhancements
- Flash upgrades
- Math enhancements for the Equation Plotter and Unit Converter.
- Relevancy Ranking improvements.
- New math functionality, beta testing.
- Enhanced search performance.

Why our customers use Knovel

"In a world of static and boring e-books, I find Knovel to be unique in its capacity to be dynamic and interactive. To me, it seems like the next generation of e-books is already here, and I'm just waiting for the others to catch up!"

Domenic Iannello

Datasets Librarian

RMIT University Library

Swanston Street Campus

"Feature wise, Knovel is highly developed to meet the special needs of engineers and scientist. It has a fully searchable environment, allowing searching for properties and equations. Other special features such as Graph Plotter are not available in other systems."

Janny Lai

Assiatant Librarian, Collection development

University of Hong Kong Libraries

Thank You

- Questions?
- Comments?