

Introduction to Knovel

<http://app.knovel.com>



Lionel New – l.new@elsevier.com

March 2017



LIBRARY
Read. Research. Discover.

Know More. Search Less.



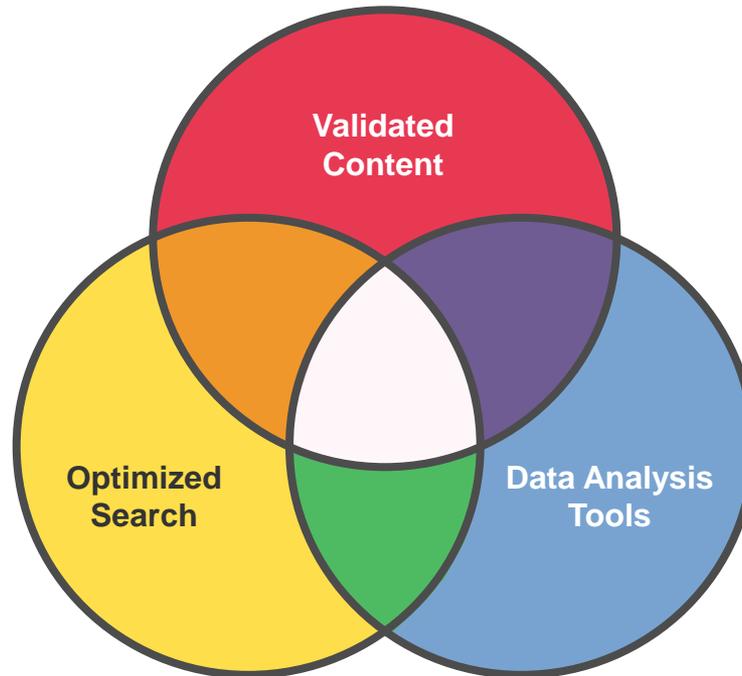
Agenda

- **About Knovel**
- **What content is in Knovel (AIT)**
- **Who is using Knovel for Teaching & Learning**
- **Key Features & Highlights**
 - Search Optimized for Engineers and Scientists
 - Data Search & Data Analysis Tools integrated into Engineering Workflow
 - Interactive Tools – Graph Digitizer & Equation Plotter
- **My Knovel ToGo – Mobile Tablet Reader**



About Knovel

Knovel is a **web-based application** integrating **technical information** with **analytical & search tools** which **drive innovation** and **deliver answers** engineers can trust



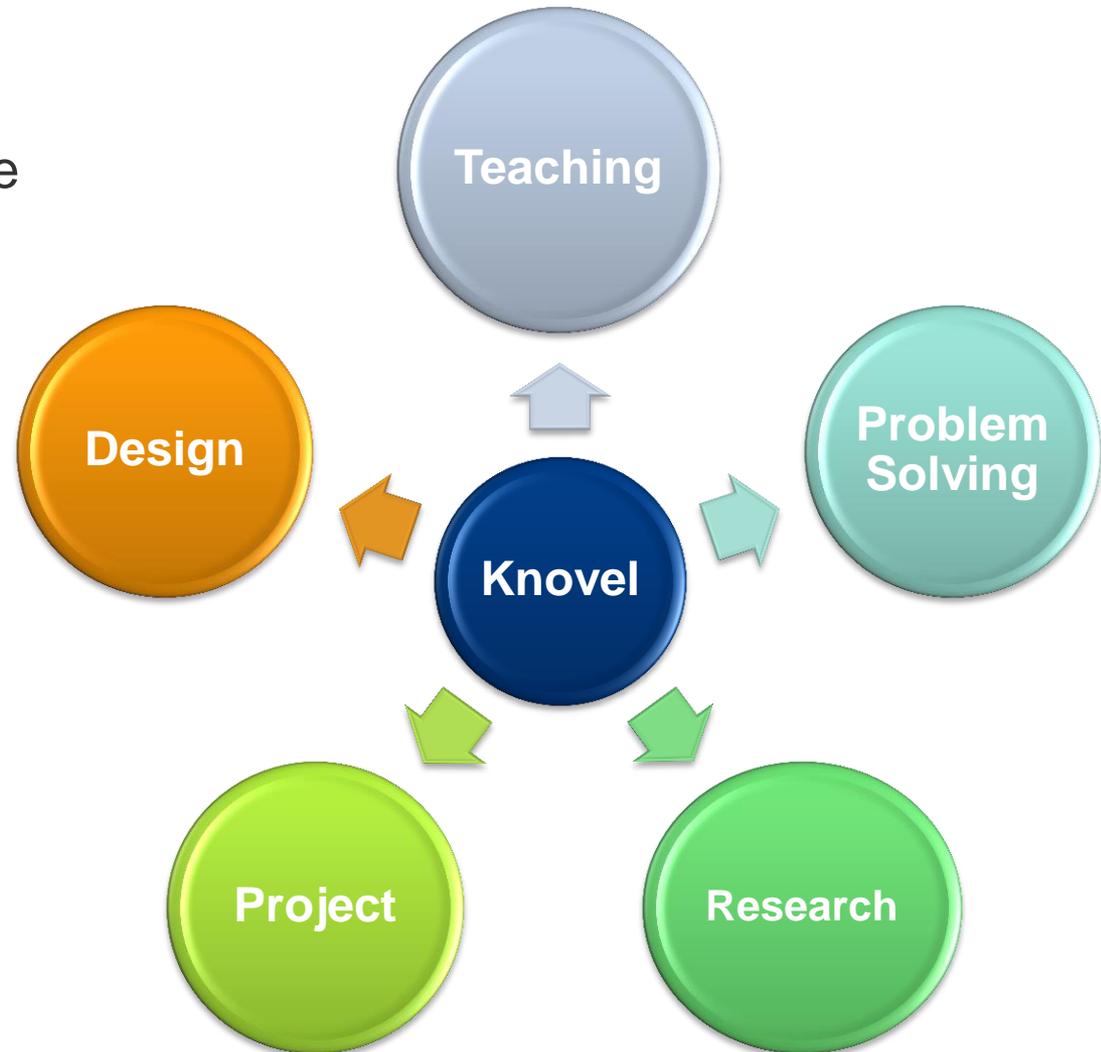
Knovel delivers answers engineers can trust and ultimately drives innovation.



About Knovel

Multiple applications to fit all the needs of academic institutions

Widely embraced by worldwide academic institutions to **enhance innovation and design activities** and achieve **teaching excellence** so as to **produce successful engineers**





Broadest Quality Content from Relevant Sources



Broadest Content from Diversified Sources

- Established, accepted science sourced from 130+ recognized societies & publishing partners
- Stringent selection process supported by Editorial Advisory Board



Over 130 trusted and diversified content sources



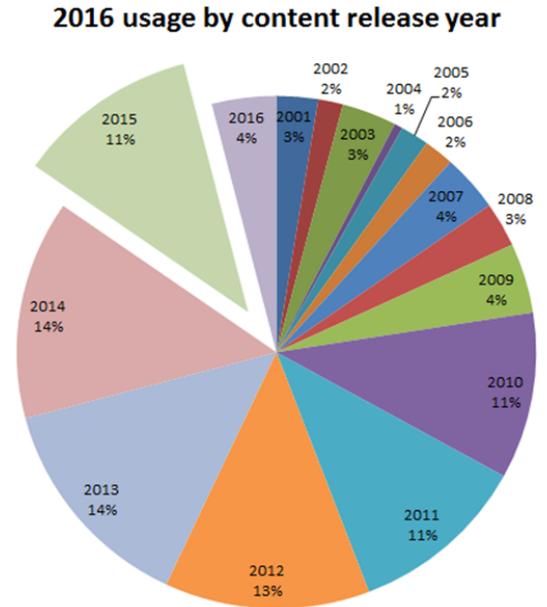
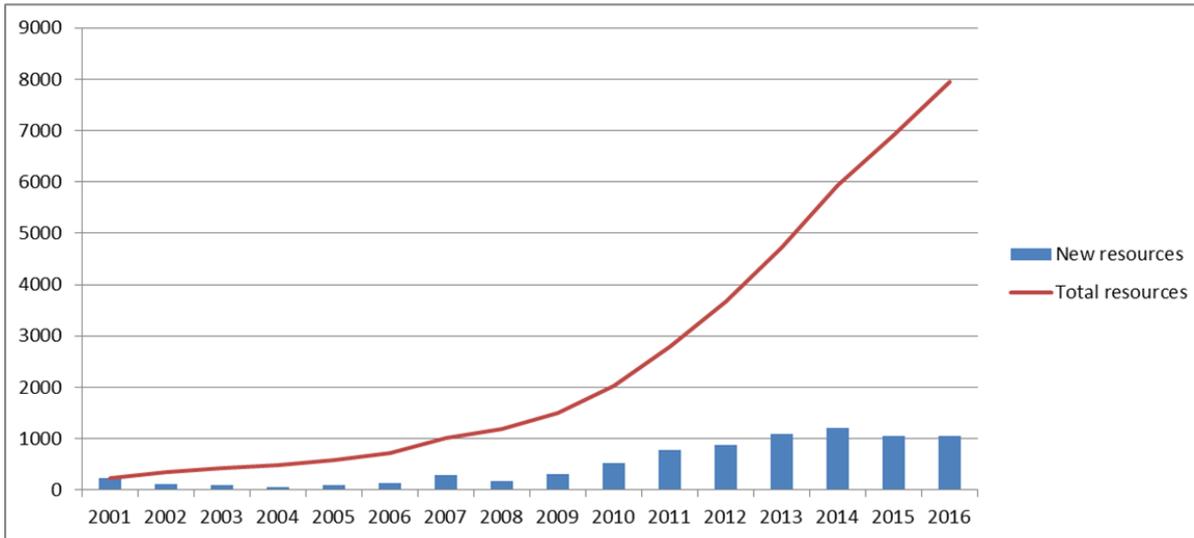


Depth and breadth of engineering topics to allow discovery and problem solving

- Adhesives, Coatings, Sealants & Inks
- Aerospace & Radar Technology
- Biochemistry, Biology & Biotechnology
- Ceramics & Ceramic Engineering
- Chemistry & Chemical Engineering
- Civil Engineering & Construction Materials
- Composites
- Computer Hardware Engineering
- Earth Sciences
- Electrical & Power Engineering
- Electronics & Semiconductors
- Engineering Management & Leadership
- Environment & Environmental Engineering
- Fire Protection Engineering & Emergency Response
- Food Science
- General Engineering & Project Administration
- Industrial Engineering & Operations Management
- Manufacturing Engineering
- Marine Engineering & Naval Architecture
- Mechanics & Mechanical Engineering
- Metals & Metallurgy
- Mining Engineering & Extractive Metallurgy
- Nanotechnology
- Nondestructive Testing & Evaluation
- Oil & Gas Engineering
- Optics & Photonics
- Pharmaceuticals, Cosmetics & Toiletries
- Plastics & Rubber
- Process Design, Control & Automation
- Safety & Industrial Hygiene
- Software Engineering
- Sustainable Energy & Development
- Textiles
- Transportation Engineering
- Welding Engineering & Materials Joining



- Content is Key (1 of 2)



- **39% of 2016 usage came from content added in last 3 years (2013-15)**
- **66% of 2016 usage came from content added in last 5 years (2011-15)**



- Content is Key (2 of 2)

Region	Number of Partners	% of Titles	% of Usage (2016 YTD)
EU	44	27%	19%
APAC	6	2%	1%
NOAM	80	71%	79%

- Content sourced from outside N. America accounts for 29% of all content on Knovel and 20% of all usage
- In 2016, 40% of new resources added from partners outside N. America

2017 New References

- Addition of 850 new titles, 11% growth
- Key partners are targeted

2017 Data & Equations

- Addition of 600 interactive equation worksheets , 40% growth
- 1.7M data points add/update
- Total 63M data points



Search Optimized for Engineers



Broadest Content from Diversified Sources

- Established, accepted science sourced from 130+ recognized societies & publishing partners
- Stringent selection process supported by Editorial Advisory Board

Search Optimized for Engineers

- Finds data, hidden in tables, graphs, and equations
- “Understands” engineering language
- Allows numeric range search





A proven problem solving resource for Industry

- Hundreds of thousands of Engineers Worldwide use Knovel
- 74 of Fortune 500 companies
- “Top 10” engineering firms in Oil & Gas, Specialty Chemical, Aerospace & Defense and Engineering Design & Construction





Students can solve realistic problem like a real engineer

- Nearly 500 Institutions in 50+ countries
- 20 of Top 24 US Engineering Schools & 31 of the top 50 World's Best Universities for Mechanical, Aeronautical, & Manufacturing Engineering
- Embraced by academic institutions of all sizes.



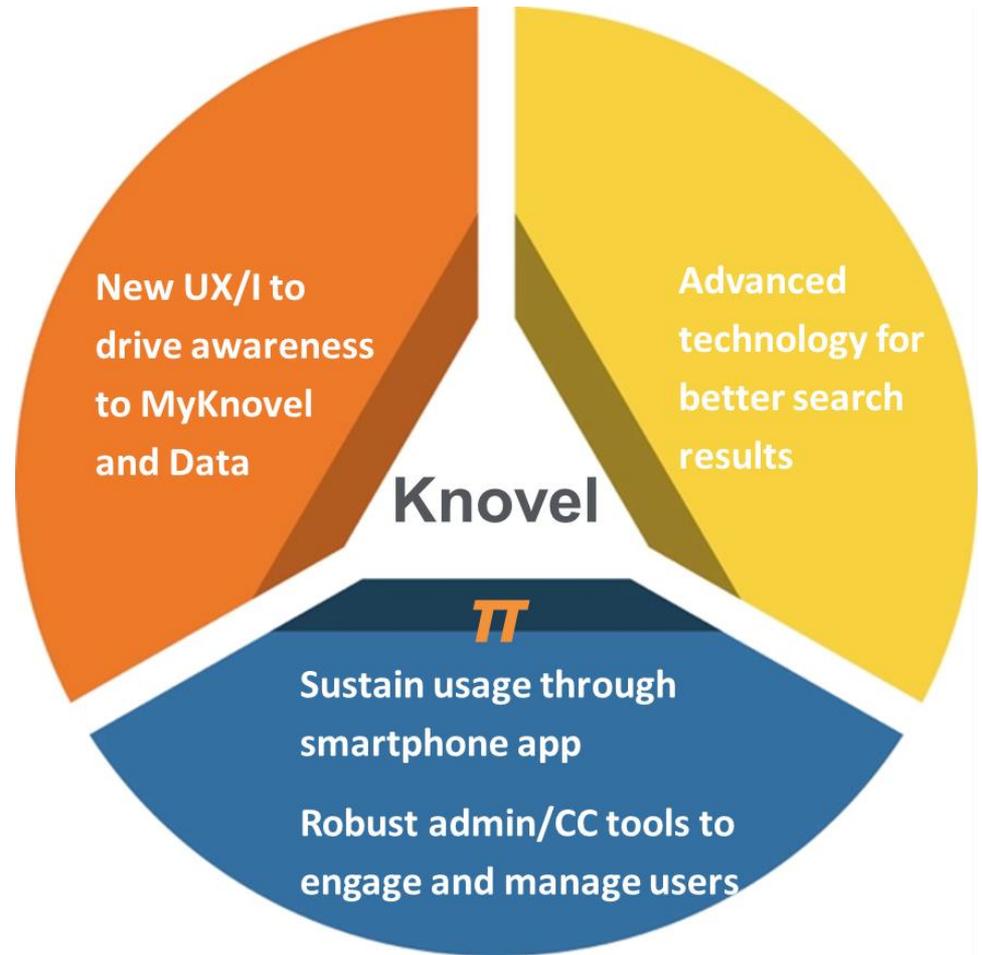
KMUTNB

The University of Hong Kong



Personalized insights for engineers

Knovel is the solution to deliver deep engineering insights using trusted content; through machine learning and analytics





Search Optimized for Engineers

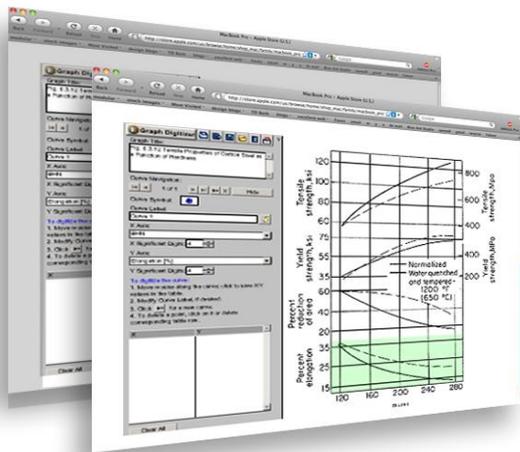


Broadest Content from Diversified Sources

- Established, accepted science sourced from 120+ recognized societies & publishing partners
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Search Optimized for Engineers

- Finds data, hidden in tables, graphs, and equations
- “Understands” engineering language
- Allows numeric range search



Interactive non-text content come “alive”

- More than 100,000 interactive tables, graphs and equations
- Customize and manipulate data as easily as sorting a spreadsheet
- Data Export preserves format and documents data source



- Progress Update: Better Search for Text Content



Knovel® Search Data Search ▶

Home Search for 'bromine' Search within these

Save Search All Content My Subscription Relevancy Date Page 1 of 170

SEARCH TARGETS
elements nonmetal halides **Solution temperature** vapor pressure boiling point Ethers **molecular weight** freeze point flash point **Oxides Alcohols** pressure Coating **Esters Properties** refractive index specific gravity **form density**
What do you think of Search Targets?

TECHNICAL REFERENCES
All Technical References
Text Sections (1297)
Interactive Tables (253)
Interactive Graphs (112)
Conference Proceedings (31)
Regulatory Information (3)
Equations (1)

EXTERNAL LINKS
[Compendex from Engineering Village >>](#)

EQUATIONS

 **Salinity**
...is the total grams of chlorine, bromine and iodine in one kilogram of water. Salinity is an important parameter that can help to justify the tendency of pitting corrosion in an environment... more »

INTERACTIVE TABLES

Dielectric Constants of Common Materials (2 hits)

#	material or substance name	synonyms	molecular formula	CAS Registry No.	dielec. cc
149	bromine				CLICK LINK TO VIEW THE TABLE

 from Knovel Critical Tables (2nd Edition)
[Search within this title »](#)

INTERACTIVE TABLES

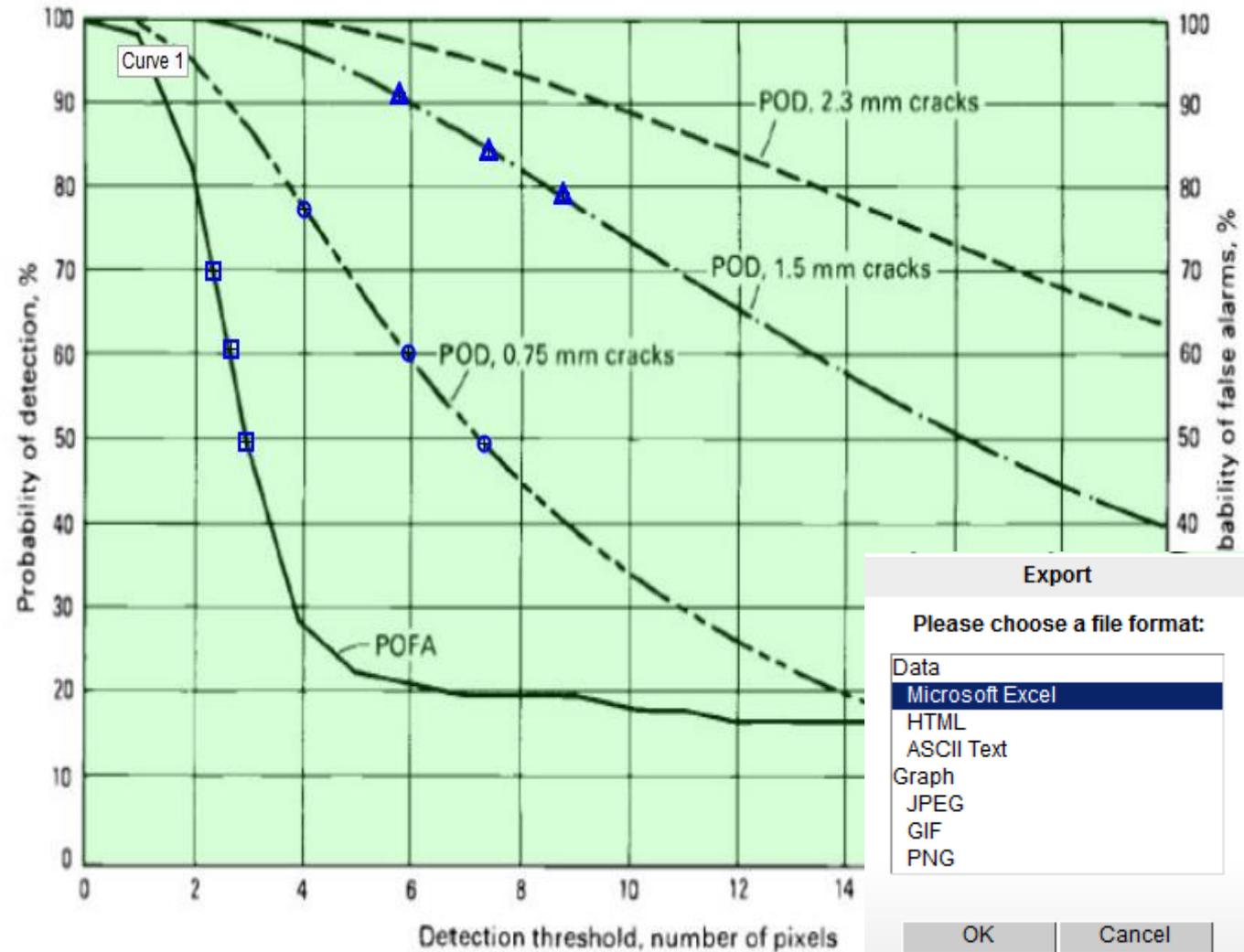
Enthalpies and Entropies of Formation of Organic Compounds in the Gas Phase... (7 hits)



Interactive Graph

Knovel® Graph Digitizer

Fig. 15. Performance curves for various discrimination levels.
from ASM Handbook, Volume 17 - Nondestructive Evaluation and Quality Control



How to Use

X Axis
Detection threshold (number of pixels) | e

Y Axis
Probability of detection (%)

X Significant Digits: 4

Y Significant Digits: 4

X	Y
5.872	91.16
7.523	84.57
8.898	79.46

Active Area Clear All

Curve Label
Curve 3 Add

Curve Navigation
3 of 4 Hide

Curve Symbol ▲

Zoom (100%)

Export

Please choose a file format:

- Data
- Microsoft Excel**
- HTML
- ASCII Text
- Graph
- JPEG
- GIF
- PNG

OK Cancel

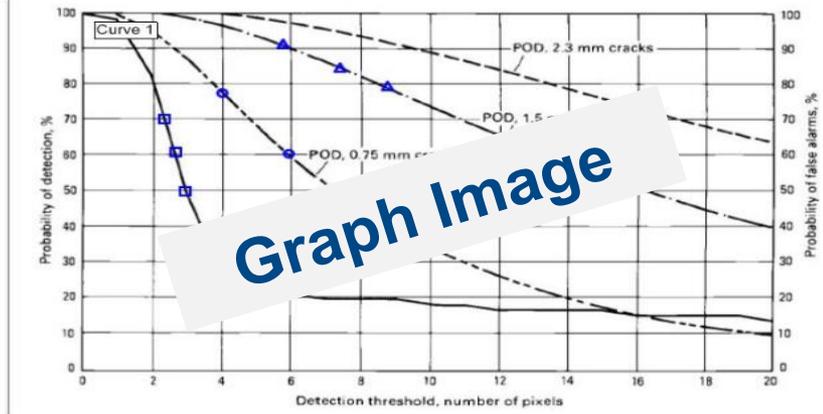


Interactive Graph

	A	B	C	D
1	Fig. 15. Performance curves for various discrimination levels.			
2				
3				
4				
5	Curve 1			
6	Detection threshold (number of pixels)	Probability of detection (%)		
7	4.111	77.54		
8	6.037	60.73		
9	7.440	50.09		
10				
11				
12	Curve 2			
13	Detection threshold (number of pixels)	Probability of detection (%)		
14	2.433	70.31		
15	2.763	61.16		
16	3.038	50.30		
17				
18				
19	Curve 3			
20	Detection threshold (number of pixels)	Probability of detection (%)		
21	5.872	91.16		
22	7.523	84.57		
23	8.898	79.46		
24				
25				
26	ASM Handbook, Volume 17 - Nondestructive Evaluation and Quality Control			
27	Copyright © 1989 ASM International			

Microsoft Excel

Fig. 15. Performance curves for various discrimination levels.



Graph Image

ASM Handbook, Volume 17 - Nondestructive Evaluation and Quality Control
Copyright © 1989 ASM International

Curve 1	
Detection threshold (number of pixels) left	Probability of detection (%)
4.111	77.54
6.037	60.73
7.440	50.09

Curve 2	
Detection threshold (number of pixels) left	Probability of detection (%)
2.433	70.31
2.763	61.16
3.038	50.30

Data Image

Curve 3	
Detection threshold (number of pixels) left	Probability of detection (%)
5.872	91.16
7.523	84.57
8.898	79.46



Interactive Table

Home Search for 's...' Yaws' Critica... Table 53. Specific Heat of Solid – Inorganic Compounds, sp... Specific heat iron + solid + iron

Contents Save Notes Export Page 1 of 2 Rows 1 - 50 of 69 from 2335

equation plotter	molecular formula	name	synonyms	CAS No.	molecular weight	temperature, T _{min} (K)	temperature, T _{max} (K)	temperature, T (K)	specific heat @ T _{min} (kJ/(kg K))	specific heat @ T (kJ/(kg K))	specific heat @ T _{max} (kJ/(kg K))	code	A
	Al ₂ FeO ₄	aluminate, iron (II)		12068-49-4	173.804	298.15	303.15	300.65	0.684	0.684	0.684	2	0.
	AsFeH ₄ O ₆	arsenate, iron (III) dihydrate	arsenate, iron (III) dihydrate arsenate of ...	10102-49-5	230.793	298.15	303.15	300.65	0.721	0.721	0.721	2	0.
	Fe	iron	ancor en 80/150 armco pzh2m carbony ...	7439-89-6	55.845	100	1000	550	0.217	0.553	0.975	1	-0.
	AsFe	iron arsenide	arsinidneiron iron arsenide	12044-16-5	130.767	298.15	303.15	300.65	0.426	0.426	0.426	2	0.
	BFe	iron boride		12006-84-7	66.655	298.15	303.15	300.65	0.588	0.588	0.588	2	0.
	Br ₂ Fe	iron (II) bromide	dibromoiron FeBr ₂ ferrou ...	7789-46-0	215.653	298.15	1500	899.075	0.372	0.434	0.496	1	0.
	Br ₂ FeH ₁₂ O ₆	iron (II) bromide hexahydrate	iron (II) bromide hydrate dibromoiron hydr ...	13463-12-2	323.743	298.15	303.15	300.65	0.775	0.775	0.775	2	0.
	Br ₃ Fe	iron (III) bromide	ferric bromide iron (III) bromide tribromoiron	10031-26-2	295.557	298.15	303.15	300.65	0.356	0.356	0.356	2	0.
	CFeO ₃	iron (II) carbonate	blaud's mass carbonic acid, iron (2+ ...	563-71-3	115.853	298.15	303.15	300.65	0.693	0.693	0.693	2	0.
	C ₇ H ₄ FeO ₆	iron (II) oxalate	ferrous oxalate dihydrate	6047-25-2	179.893	298.15	303.15	300.65	0.898	0.898	0.898	2	0.

Yaws' Critical Property Data for Chemical Engineers and Chemists © 2012; 2013; 2014 Knovel



Interactive Equations

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Welcome Lionel New ▾

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For **MATERIAL/SUBSTANCE** or **PROPERTY** search, use

[Data Search ▶](#)

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Knovel Overview | Finding Actionable Answers to Everyday Engineering Problems

Find out the best ways to search for answers through Knovel's 40+ content areas and how to leverage interactive tools.

Wednesday, March 16 at 10 AM EDT
[Register today!](#)

Thank you to [Elsevier](#), for helping provide Knovel access to the top 53 finalists of the Green and Sustainable Chemistry Challenge



My Equations

0

My Calculations

0



Chemistry & Ch...

269



Civil Engineerin...

51



Electrical & Pow...

50



Electronics & S...

69



General Engine...

100



Mechanics & Me...

290

Solve problems easy and fast!

- Browse collections of practical equations and worked examples, use the built-in Equation Solver to calculate, and export your calculation for reports or sharing knowledge
- Create a worksheet from scratch by combining text, math, images, and plots. Have easy one-click access to a toolbox containing math functions, engineering units, programming structures, and math symbols used in engineering formulas

Use the left panel to browse through the collections. To preview the equation in HTML or calculate using the built-in Equation Solver, you need to register with Knovel. Registration is easy via a simple form. If you have already a Knovel account, please login.

For more information, please check out the resources located under the Help Menu



Knovel Interactive Equations features a comprehensive, authoritative set of equations and working examples in the subject areas of **Chemistry** and **Chemical Engineering**, **Electronics** and **Semiconductors**, **General Engineering**, **Mechanics** and **Mechanical Engineering**, **Metals** and **Metallurgy**, **Oil & Gas**, and many others that are being added daily.

[\[WATCH THE VIDEO\]](#)



Built-in software allows you to calculate online and export your calculation in PDF, Mathcad, or HTML formats. Click this button on the right side of the screen to go directly to



- Progress Update: My Knovel To Go Smartphone App



iOS



Android

- ✓ NEW Smartphone app submitted for approval to iOS and Android app stores
- ✓ NEW Smartphone app on-track for Q1 delivery
- ✓ Tablet app updated and released



Explore Knovel

K N L E R K J K H L D L F Y C Z G N N C G V G N L E R K J K H L D L F Y C G Z D D D K
U Z M R T U K J J P F J G U X L D C K V C B C Z M R T U K J J P F J G U X C K 9 J S U
C U N T Y C Y H **K** I G X J K U H F H J B N N N U N T Y C G H K I G X J K U K S I C X C
G T B Y O G M G **N** U H X K J S F J A V N X U X T B Y O G M G O U H X K J S Z G N N C G
C H V U I C N F **O** Y J C K H L **K N O W** U K Y K H V U J C N F I Y J C K H L L D C K V C
N A N I J N B D **V** T K V C G D C 9 W C **M O R E** A N I H N B D U T K V C G D S V B X B N
X N K O H X V S **E** R L B B F B H I K J R K S K N K O **S** X V S Y R L B B F B H F H J N X
K V I P J K C S **L** E T N X S V C N F K S S T S V I P **E** K C S T E T N X S V F J A V U K
Z B U L X Z F E X A Y J F J H G S M B T G D G B U L **A** Z F J D A Y J F J H G D O H Y Z
K G Y K J K G D C S U H J H D T F N H D D Y D G Y K **R** K G H S S U H J H D C 9 W C R K
S A T M S S H R V G I G S 3 O K A B A Y V U V A T M **C** S H C X G I G G C O H I K J S S
G E R N D G Y F B H O F D S A J S V O U F H F E R N **H** G **L E S S** O F J B O C N F K T G
D Q D B I D J T N J I S R F S H F C W F J A J Q D B W D J V V J I S C V Q H C M B D D
V U H V W V K Y U K U F N V D C A F K D D O D U H V H V K Y U N Y E H N U X B N H Y V
F P J C H F L U Y M Y E G A S G O G F H 9 W 9 P J C F F L U Y B T R W M S K H B A U F



A SEARCH-centric User Experience

The screenshot shows the Knovel website homepage. At the top, there is a navigation bar with links for Home, Browse, and Tools. On the right side of the navigation bar, there are links for Support Center, My Knovel, and a user profile for Cindy Goerlitz. Below the navigation bar, the Knovel logo is prominently displayed in the center. To the right of the logo, there is a small badge that says "BROUGHT TO YOU BY Knovel Know More. Search Less." Below the logo, there is a large search bar with the text "Search Knovel" and a "GO" button. Underneath the search bar, there is a message: "Looking for a specific material or property? Try our new [Data Search](#) ▶". At the bottom of the page, there are three columns of featured content:

- Download Free software engineering excerpt**
Read about how Fuzzy Logic is used as a proactive step in threat management for software security. [Download Now](#)
- Try our new Data Search**
Retrieve data found in Knovel's interactive graphs, equations and tables by dragging and dropping properties into the query builder. [Learn More](#)
- [Chemical Challenges in 'Deepwater'](#)**
Introduction For some time now the oil and gas industry has been exploring, developing and producing from deep-water reserves of oil and gas. Exploitation of these reserves has presented, and will continue to present, a number of unique engineering challenges. In addition to...



Faceting In Browse

The screenshot shows the Knovel Browse website interface. At the top, there are navigation tabs for Home, Browse, and Tools. The user is logged in as 'Cindy Goerlitz'. A search bar is present with the text 'Search Knovel' and a 'GO' button. Below the search bar, the breadcrumb trail shows 'Browse' > 'Civil Engineering & Construction Materials'. The main content area displays a list of search results for 'Civil Engineering & Construction Materials'. On the left side, there is a 'TOPICS' sidebar with a red border, listing various categories and their counts: All Titles (392), Asphalt & Bituminous Materials (18), Buildings & Energy Efficiency (16), Civil Engineering (101), Concrete & Related Materials (35), General References (115), Structural Engineering (105), and Wood (2). The search results list includes three items:

- Civil Engineering & Construction Materials** [see description »](#)
- AASHTO Guide for Design of Pavement Structures (4th Edition)**
(American Association of State Highway and Transportation Officials (AASHTO), 1993)
- AASHTO Guide Specifications for LRFD Seismic Bridge Design (2nd Edition) with 2012 and 2014 Interim Revisions**
(American Association of State Highway and Transportation Officials (AASHTO), 2011; 2012; 2014)
- AASHTO LRFD Bridge Construction Specifications (3rd Edition) with 2010 and 2011 Interim Revisions**
(American Association of State Highway and Transportation Officials (AASHTO), 2010)



Faceting In Results

Home Browse Tools Support Center My Knovel Welcome Cindy Goerlitz

Knovel® Search carbide tensile strength GO Data Search

Home Search for 'carbide tensile strength' Search within these results

Save Search All Content My Subscription Showing page 1 of 74

CONTENT TYPES

- All Content Types
- Text Sections (626)
- Interactive Tables (83)
- Conference Proceedings (31)

INTERACTIVE TABLES + Save to My Knovel

Compositions of Engineering Alloys (2 hits)

#	Material type	Material class	Material subclass	Material group	Material family	Designation
10087	CLICK LINK TO VIEW THE TABLE					

 from Woldman's Engineering Alloys (9th Edition) (2000)
[Search within this title »](#)

TEXT SECTIONS + Save to My Knovel

Relation Between Hardness and Tensile Strength

... being determined by the fact that any member in the series will scratch any of the preceding members This scale is as follows 1 talc 2 gypsum 3 calcite 4 fluor spar 5 apatite 6 orthoclase 7 qu artz... [more »](#)

 from Machinery's Handbook (27th Edition) & Guide to Machinery's Handbook (2004)
[See more results from this title](#) | [Search within this title »](#)

TEXT SECTIONS + Save to My Knovel



Search Within Results

Home Browse Tools Support Center My Knovel Welcome Cindy Goerlitz

Knovel® Search Data Search ▾

Home Search for 'carbide tensile strength'

Save Search All Content My Subscription Showing page 1 of 74

CONTENT TYPES

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 from Machinery's Handbook (27th Edition) & Guide to Machinery's Handbook (2004)
[See more results from this title](#) | [Search within this title »](#)

TEXT SECTIONS



Home Search for 'milk fat' Functional and Speciality Beverage Technology 9.2.6 Milk Fat milk fat

Cancel Search

Highlighting *milk fat*

to solubilise proteins (salting-in), but too much salt leads to screening of excess charge, leading to agglomeration (salting-out).

The main mineral in **milk** is calcium. About 8 wt% of the casein micelles is calcium phosphate (about 1.25% of skimmed **milk** powder is pure calcium). Intake of calcium is considered to be of importance for reduced risk of osteoporosis. Surprisingly, deficiencies remain, even in the Western world. Casein micelles are an ideal carrier of cations such as calcium (but also magnesium and all other insoluble salts), which is mainly present in the micelles in the form of phosphate crystals. These crystals are insoluble in water at neutral pH, but because they reside in hydrophobic pockets at the interior of the casein micelles, they are kept 'in solution'. Acidification leads to dissolution of the crystals. If **milk** is further enriched in calcium, considerable taste (soluble calcium causes bitterness and in-line fouling) and texture (insoluble calcium causes sandiness, sedimentation and wearing of homogenisers) issues can arise.

Some new insights on the interaction between proteins and calcium have been gained over the past years, especially as a function of (reversible or cycled) pH (Canabady-Rochelle *et al.*, 2007; Raouche *et al.*, 2007, 2008).

9.2.6 Milk fat

Normal fresh cow's **milk** contains only about 3.5% **milk fat**, depending on the cow breed. **Milk fat**, also known as butterfat, is composed of triacylglycerols (TAGs) containing a wide range of **fatty acid** moieties. The most

Shortcuts



DATA SEARCH is easy with a Wizard UI

Home Browse Tools Support Center My Knovel Welcome Cindy Goerlitz

Knovel® Search Search Knovel GO Data Search

Share URL Save to My Knovel **Data Search Query Builder** ?

Material or Substance Name: acrylonitrile x

density exists x

dens x

- physical constants
 - critical density
 - critical density (mol/vol basis)
 - density
 - molar density
 - relative density

Your Query: **22 results »**



My Knovel with Shared Folders

Home Browse Tools Support Center My Knovel Welcome Cindy Goerlitz

Knovel® Search Knovel GO Data Search

New Folder My Knovel Select All ?

MY FOLDERS

- Unfiled Items
- Chem Engineering**
- Food Science
- Mechanical Engineering
- Project 2013-09

SHARED FOLDERS

- DJF - Chem Eng
- LC - Chemical Engineering
- mbs-chem eng
- Mech 101
- Mechanical Engineering
- NOV searches
- seismic engineering

PENDING FOLDERS

- AAB - Chem Eng
- Chem Eng
- Cindys

Chem Engineering -7 Users Move Folder Rename Folder Delete Folder **Share Folder**

My Saved Titles Showing 1 – 3 of 3 Show All

- Inorganic Polymeric and Composite Membranes, Volume 14 - Structure, Function and Other Correlations**
by Oyama, S. Ted; Stagg-Williams, Susan M.
DATE: Nov 6, 2013
- Yaws' Critical Property Data for Chemical Engineers and Chemists**
by Yaws, Carl L.
DATE: Oct 22, 2013
- Purification of Laboratory Chemicals (7th Edition)**
by Armarego, Wilfred; Chai, Christina
DATE: Oct 15, 2013

My Saved Searches
You have not saved any search in this folder.



**Design
Enhancement**

+

**Teaching
Excellence**

=

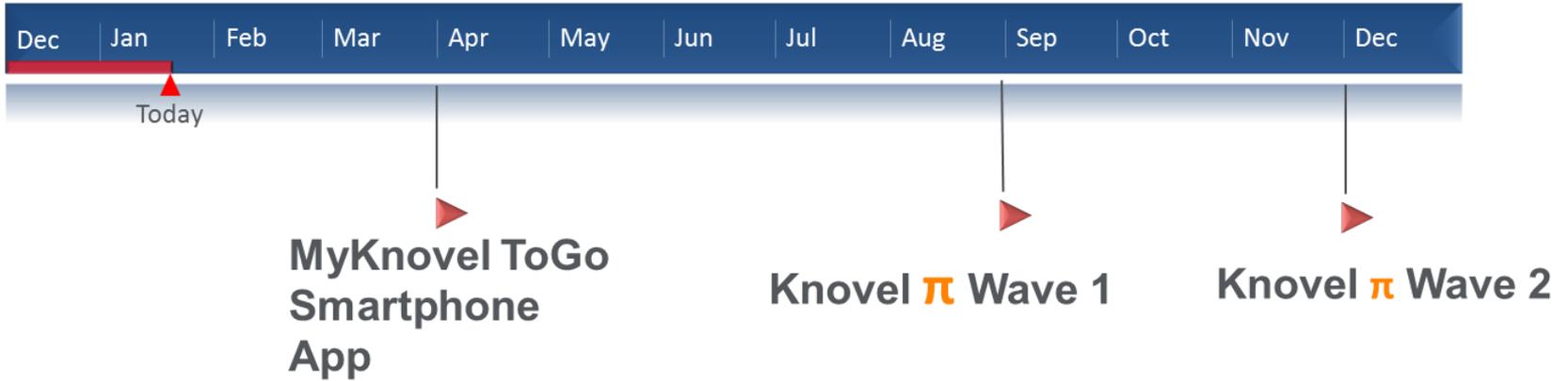
**Competent and Successful
Engineer**

- **Superior discovery to support new applications in research and design:**
 - Optimized for engineers. Easily find data hidden in interactive tables, graphs, charts and equations that can be manipulated, analyzed and exported with citations.
- **Knovel is An Asset for Teaching and Learning:**
 - Helps faculty integrate technology into the classroom and teaching methods to achieve teaching excellence and meets the challenges of today's tech savvy students.
 - Professors can easily assign interactive study materials to their students to help keep them engaged.
 - Professors can use to identify supplementary readings, develop homework assignments based on a wide-array of real-world problems.
- **Knovel Helps to Educate Competent, Competitive, Innovative & Successful Engineering Professionals**
 - Students will prepare for a competitive workforce by using the same research tools and trusted information used by engineers at leading companies worldwide.

“[Knovel] has become the gold standard among its target user base, based on its ability to anticipate the needs of its users and serve them as quickly and efficiently as possible.”

- “STM E-Books: 2012 Market Size, Share, and Forecast” by Laura Ricci





Key Delivery Items	Delivery Dates
Content additions/updates	On-going monthly
Smartphone APP	March, 2017
New UX/I for Knovel website	August, 2017
New features to drive usage of Data and MyKnovel	August, 2017
Search improvements	August, 2017
New features for better user management	August, 2017
Simpler user registration and engagement	August, 2017
Additional capabilities across all areas Knovel π	December 2017



Thank you

l.new@elsevier.com

K N L E R K J K H L D L F Y C Z G N N C G V G N L E R K J K H L D L F Y C G Z D D D K
U Z M R T U K J J P F J G U X L D C K V C B C Z M R T U K J J P F J G U X C K 9 J S U
H X K J Y C Y H **K** I G X J K U H F H J B N N N U N T Y C G H K I G X J K U K S I C X C
G T B Y O G M G **N** U H X K J S F J A V N X U X T B Y O G M G O U H X K J S Z G N N C G
C H V U I C N F **O** Y J C K H L **K N O W** U K Y K H V U J C N F I Y J C K H L L D C K V C
N A N I J N B D **V** T K V C G D C 9 W C **M O R E** A N I H N B D U T K V C G D S V B X B N
X N K O H X V S **E** R L B B F B H I K J R K S K N K O **S** X V S Y R L B B F B H F H J N X
K V I P J K C S **L** E T N X S V C N F K S S T S V I P **E** K C S T E T N X S V F J A V U K
Z B U L X Z F E X A Y J F J H G S M B T G D G B U L **A** Z F J D A Y J F J H G D O H Y Z
K G Y K J K G D C S U H J H D T F N H D D Y D G Y K **R** K G H S S U H J H D C 9 W C R K
S A T M S S H R V G I G S 3 O K A B A Y V U V A T M **C** S H C X G I G G C O H I K J S S
G E R N D G Y F B H O F D S A J S V O U F H F E R N **H G L E S S** O F J B O C N F K T G
D Q D B I D J T N J I S R F S H F C W F J A J Q D B W D J V V J I S C V Q H C M B D D
V U H V W V K Y U K U F N V D C A F K D D O D U H V H V K Y U N Y E H N U X B N H Y V
F P J C H F L U Y M Y E G A S G O G F H 9 W 9 P J C F F L U Y B T R W M S K H B A U F