



ACCESS  **Engineering**®
Authoritative content. Immediate solutions.

ACCESS ENGINEERING

to multimedialna-interaktywna baza/platforma wiedzy dla:

- naukowców
- inżynierów
- kadry dydaktycznej
- studentów

OFERUJE:

- MULTIMEDIALNE nauczanie z różnych dziedzin inżynierii
- interaktywne funkcje online i offline
- rozwiązywanie rzeczywistych problemów inżynierskich
- regularnie aktualizowane informacje i zawartość bazy
- najnowsze nowości i dane ze świata inżynierii

The screenshot shows the AccessEngineering website. At the top, there is a navigation bar with links for ABOUT, HELP, ADMINISTRATION, CONTACT US, and ROAMING PASSPORT. The main header features the AccessEngineering logo and the tagline 'Authoritative content. Immediate solutions.' Below this is a search bar with the text 'Search Access Engineering' and a 'GO' button. A secondary search bar labeled 'Advanced Search' is also present. The main content area is divided into several sections: 'WELCOME TO AccessEngineering' with links for 'FOR INSTRUCTORS', 'FOR PROFESSIONALS', and 'FOR LIBRARIANS'; 'AccessEngineering offers:' listing various resources like handbooks, videos, calculators, and search tools; 'Browse Subjects' with a list of categories such as Bio, Business Skills, Chemical, Civil, Communications, Electrical/Electronics, Energy/Petroleum, Environmental/Sustainable, Industrial, Makerspace, Materials, Mechanical, Operations Management, and Software; 'Tools & Media' with links for Calculators, Curriculum Maps, DataVis - Material Properties, DataVis Projects, Engineering News, Graphs, Tables, Tutorials, and Videos; 'Featured Content' highlighting 'DataVis Material Properties' and 'PERRY'S CHEMICAL ENGINEERS' HANDBOOK 8TH EDITION'; and 'Today's Global Engineering news' with links to articles like 'How Cummins Became an Engine of Energy Efficiency', 'Smoked out: Researchers develop a new wildfire smoke', and 'Genetically engineered virus spins gold into beads'. There is also a 'Tweets by @MHengineering' section.

ZAWARTOŚĆ BAZY W LICZBACH :

- **750** tytułów książek i monografii
- **170 943** artykułów-treści tekstowych
- **5 813** grafik / ilustracji
- **690+** filmów
- **4 500 +** interaktywnych wykresów i tabel

15 głównych specjalizacji inżynierskich:

- Bioinżynieria
- Umiejętności biznesowe dla kierunków ścisłych
- Inżynieria chemiczna
- Inżynieria lądowa i wodna
- Inżynieria łączności
- Inżynieria elektryczna i elektroniczna
- Energetyka i inżynieria naftowa
- Ekologiczna i zrównoważona inżynieria
- Inżynieria przemysłowa
- Informatyka / Elektronika
- Nauka o materiałach i inżynieria materiałowa
- Inżynieria mechaniczna
- Zarządzanie operacyjne
- Seria wydawnicza: Zarysy Schaum'a
- Inżynieria oprogramowania

Tematyka bazy w/g gałęzi przemysłu – branż:

- Lotnictwo i obronność
- Motoryzacja
- Budownictwo i architektura
- Chemikalia
- Elektronika
- Produkcja
- Paliwa (Oil&Gas)

The screenshot shows the ACCESS Engineering website interface. At the top, there is a search bar with the text "Search Access Engineering" and a "GO" button. Below the search bar, the navigation menu includes "HOME", "SUBJECTS", "INDUSTRIES", "TITLES (A-Z)", and "CURRICULUM MAPS". The "INDUSTRIES" dropdown menu is open, displaying a list of engineering fields: BIO, BUSINESS SKILLS, CHEMICAL, CIVIL, COMMUNICATIONS, ELECTRICAL / ELECTRONICS, ENERGY / PETROLEUM, ENVIRONMENTAL / SUSTAINABLE, INDUSTRIAL, MAKERSPACE, MATERIALS, MECHANICAL, OPERATIONS MANAGEMENT, SCHAUM'S OUTLINES, and SOFTWARE. The website also features a "MY ACCOUNT" section with a "SIGN OUT" button and a user email address "krzysztof.rudzinski@abe.pl". The main content area includes a "Featured Content" section with "DataVis Material Properties" and "PERRY'S CHEMICAL ENGINEERS' HANDBOOK 8TH EDITION".

This screenshot is similar to the one above, showing the ACCESS Engineering website. The "INDUSTRIES" dropdown menu is open, and a red box highlights the "AEROSPACE AND DEFENSE" category. The list of industries includes: AEROSPACE AND DEFENSE, AUTOMOTIVE, BUILDING AND CONSTRUCTION, CHEMICAL, ELECTRONICS, MANUFACTURING, and OIL AND GAS. Below the dropdown, there is a "Browse Subjects" section and a "Tools & Media" section. The "Featured Content" section on the right includes "DataVis Material Properties" and "PERRY'S CHEMICAL ENGINEERS' HANDBOOK 8TH EDITION".

Uczelnie używające bazy Access Engineering:

- Politechnika Łódzka
- Politechnika Wrocławska
- Politechnika Świętokrzyska
- Politechnika Lubelska
- Akademia Morska w Gdyni



Multimedialne/Interaktywne narzędzia dołączone do podręczników w bazie:

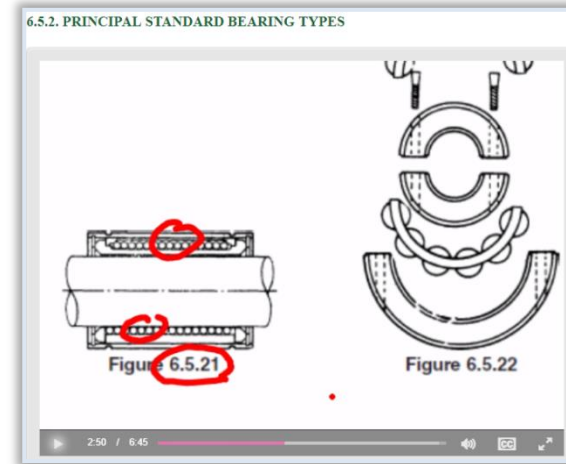
INTERAKTYWNE TABELY

Table 1-8. Kinematic-Viscosity Conversion Formulas

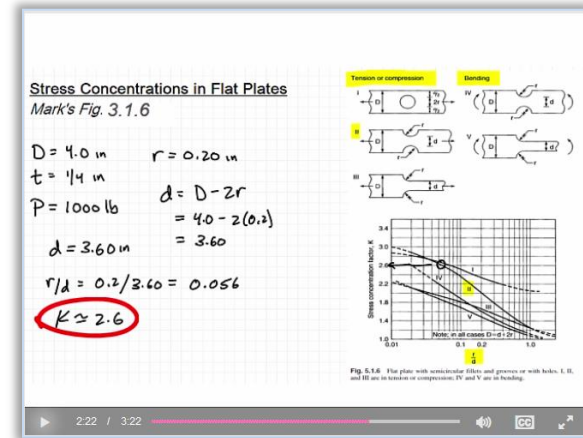
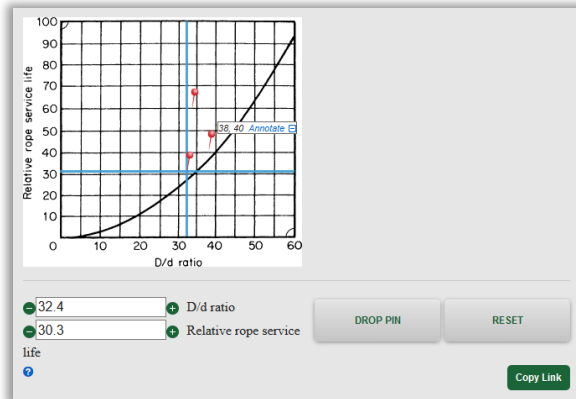
Viscosity scale	Range of t , sec	Kinematic viscosity, stokes
Saybolt Universal	$32 < t < 100$	$0.00226t - 1.95/t$
	$t > 100$	$0.00220t - 1.35/t$
Saybolt Furol	$25 < t < 40$	$0.0224t - 1.84/t$
	$t > 40$	$0.0216t - 0.60/t$
Redwood No. 1	$34 < t < 100$	$0.00260t - 1.79/t$
	$t > 100$	$0.00247t - 0.50/t$
Redwood Admiralty		$0.027t - 20/t$
Engler		$0.00147t - 3.74/t$

Export Data EXPORT TO EXCEL

WYKŁADY VIDEO



INTERAKTYWNE WYKRESY



Zawiera znakomite publikacje z dziedziny inżynierii



w tym tak znane:

- **Perry's Chemicals Engineering Handbook**
- **Mark'Standard Handbook for Mechanical Engineer's**
- **Roark's Formulas for Stress and Strain**
- **Building Design and Construction Handbook**
- **Seria wydawnicza „Schaum's Outlines”**
- **Podręczniki z serii „SIX SIGMA” - Z ZAKRESU ZARZĄDZANIA W BIZNESIE RÓWNIEŻ DLA STUDENTÓW KIERUNKÓW ŚCISŁYCH**

Access Engineering - to znane klasyczne znakomite publikacje z dziedziny inżynierii

Kolekcja 'klasyki'

- *Chemical Properties Handbook*, 1999
- *Dimensioning and Tolerancing Handbook*, 1999
- *Fan Handbook: Selection, Application, and Design* 1997
- *Geotechnical Earthquake Engineering Handbook*, 2012
- *Handbook of Air Conditioning and Refrigeration*, 2001
- *Handbook of Environmental Engineering Calculations*, 2007
- *Handbook of Heat Transfer* 1998
- *Handbook of Hydraulics* 2018
- *Handbook of Hydrology* 1993
- *Handbook of Industrial Chemistry Organic Chemicals*, 2005
- *Illustrated Sourcebook of Mechanical Components*) 2008

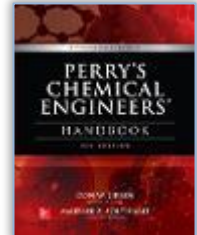
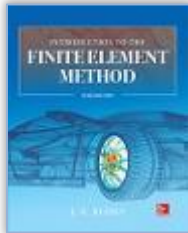


Access Engineering - nowe tytuły książek z końca 2018r.

Grudzień 2018

[Introduction to the Finite Element Method, Fourth Edition](#)

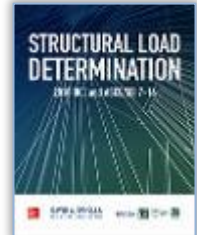
[Perry's Chemical Engineers' Handbook, 9th Edition](#)



Listopad 2018

[Materials and Manufacturing: An Introduction to How They Work and Why It Matters](#)

[Structural Load Determination: 2018 IBC and ASCE/SEI 7-16](#)



Październik 2018

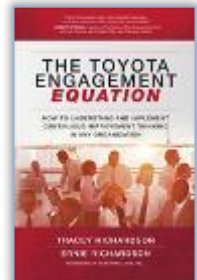
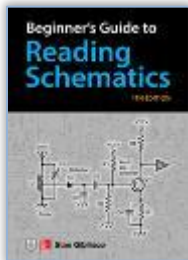
[Beginner's Guide to Reading Schematics, Fourth Edition](#)

[The Toyota Engagement Equation: How to Understand and Implement Continuous](#)

[Improvement Thinking in any organization](#)

[Computer Systems: An Embedded Approach](#)

[Building Design for Wind Forces](#)



Znane znakomite publikacje z dziedziny inżynierii nagrodzone w PROSE AWARDS

PROSE Award New York 2018

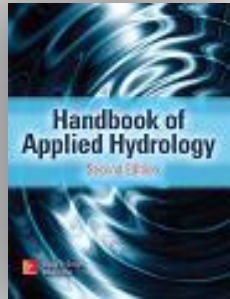
WINNER

ENGINEERING & TECHNOLOGY

McGraw-Hill Education

Handbook of Applied Hydrology, Second Edition

By Vijay P. Singh



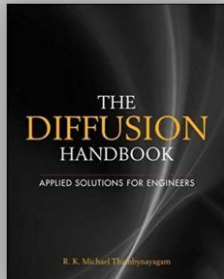
PROSE Award New York 2011

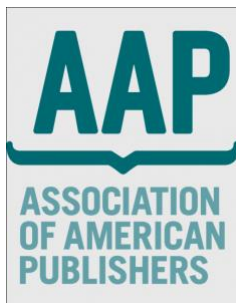
WINNER

Applied Solutions for Engineers

The Diffusion Handbook: Applied Solutions for Engineers, McGraw-Hill

By R.K. Michael Thambynayagam





Access Engineering Wielokrotnie nagradzany zwycięzca PROSE Award New York



[Access Engineering®](#) | Professional

[2017 PROSE Award: Physical Sciences & Mathematics](#) | Data Vis Material Properties

[2017 PROSE Award: Engineering & Technology](#) | Practical Electronics for Inventors, Fourth Edition

[Access Science®](#) | Professional

[2014 PROSE Award: Multidiscipline Platform](#) | Association of American Publishers

[DataVis Material Properties](#) | Professional

[2017 PROSE Award: Physical Sciences & Mathematics](#) | Association of American Publishers

[Access Engineering®](#) | Professional

[2013 PROSE Award: Best Multidiscipline Platform/Eproduct](#) | Access Engineering

[2013 PROSE Award: Best Online Resource in Physical Sciences and Mathematics](#) | Access Engineering

IEEE Access®
Multidisciplinary | Rapid Review | Open Access Journal
2015 PROSE Award
"Best New Journal in STM"



PROGRAMY NAUCZANIA

GOTOWE KURSY

Curriculum Maps

uszeregowany tematycznie
MATERIAŁ DYDAKTYCZNY
z **17 dziedzin** z zakresu szeroko
rozumianej inżynierii

Materiały w formie **MULTIMEDIÓW**

- artykuły
- prezentacje
- obrazy
- tabele
- wykresy
- materiały wideo

The screenshot displays the ACCESS Engineering website interface. At the top, the logo and tagline are visible. A search bar is located in the upper right. The navigation menu includes 'HOME', 'SUBJECTS', 'INDUSTRIES', 'TITLES (A-Z)', 'CURRICULUM MAPS', and 'SIGN IN'. The 'CURRICULUM MAPS' dropdown menu is highlighted with a red border and lists the following subjects: CIRCUIT ANALYSIS (DC AND AC), CONTROL SYSTEMS, ELECTRONICS, ENGINEERING ECONOMICS, FLUID FLOW / MOMENTUM TRANSFER, HEAT TRANSFER, MACHINE DESIGN, MASS TRANSFER, MATERIALS SCIENCE AND ENGINEERING (MSE), QUALITY CONTROL, REACTION KINETICS, SEPARATIONS, STRENGTH OF MATERIALS, THERMODYNAMICS, VIBRATION AND CONTROL, WASTEWATER TREATMENT / PLANT DESIGN, and WATER TREATMENT / PLANT DESIGN. Below the navigation, there is a 'WELCOME TO' section, a list of 'AccessEngineering offers' (including handbooks, instructional videos, calculators, maps, search tools, tables, news, and DataVis), and a 'Browse Subjects' section with a grid of subject categories like Bio, Business Skills, Chemical, Civil, Communications, Electrical/Electronics, Energy/Petroleum, Environmental/Sustainable, Industrial, Makerspace, Materials, Mechanical, Operations Management, Schaum's Outlines, and Software. A 'DataVis Properties' section is also visible, listing 'DataVis Projects', 'Engineering News', 'Graphs', 'Tables', and 'Tutorials'. A 'Spreadsheet Calculators' icon is shown in the bottom right corner.

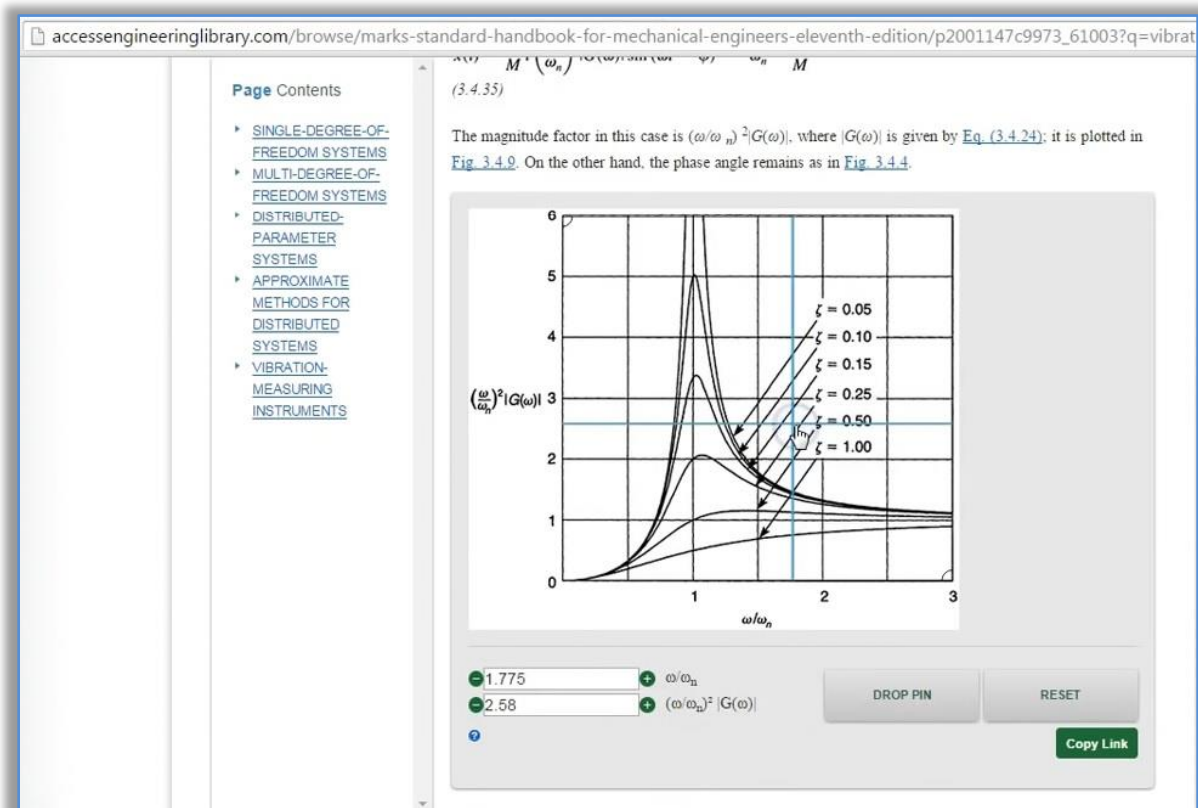
Interaktywne wykresy i tabele

Analiza danych w pracach badawczych i projektach

Interaktywne wykresy i wizualizacje zmieniane w trakcie wpisywania różnych danych.

MOŻLIWOŚĆ EDYCJI DANYCH WYKRESU

MOŻLIWOŚĆ ZAZNACZANIA „PINEZKAMI” MIEJSC NA WYKRESIE



Interaktywne kalkulatory Excela

The screenshot shows an Excel spreadsheet with the following components:

- Ribbon:** File, Home, Insert, Page Layout, Formulas, Data, Review, View.
- Clipboard:** Cut, Copy, Paste, Format Painter.
- Font:** Arial, 10, Bold, Italic, Underline, Text Color, Background Color.
- Alignment:** Wrap Text, Merge & Center.
- Number:** General, Percent, Decimal, Fraction, Scientific, Text, Custom.
- Conditional Formatting:** Conditional Formatting.
- Format as Table:** Format as Table.
- Cell Styles:** Cell Styles.
- Cells:** Insert, Delete, Format.
- Editing:** AutoSum, Fill, Sort & Filter, Find & Select.

LIQUID DENSITY (Vertical Sidebar)

Main Calculation Area:

- Flow thru Annulus:** A dropdown menu with "Flow thru Annulus" selected.
- Select a Liquid:** A dropdown menu with "Tetrahydrofuran" selected. Below it, "Temperature Range (°F): -162 to 513" and "Liquid Temp. for Prop. Estimation (°F): 125.03".
- Density from above menu selection:** A text box containing "53.12 lbm/ft³".
- OR**
- Enter a Liquid Density Obtained Elsewhere:** A text box for "Liquid Density (lbm/ft³)".
- Liquid Density Result:** A blue box showing "53.12 lbm/ft³ (from menu selection)".

Notes:

- "Click at right to use this drop down menu to choose the forced convection configuration you will be using."
- "The temperature information you enter on the worksheet selected here will be used to determine fluid properties in this worksheet."
- "NOTE: The temperature above is the bulk mean liquid temp, or the film temp, from the selected config. worksheet."
- "NOTE: If the liquid working Temp. is above its boiling pt at atmosph. pressure, then the pressure must be above its vapor pressure."
- "Choose 'Other Liquid' (alphabetical in the dropdown list above) if you want to enter liquid properties obtained elsewhere."

Table: Calculations and Variables for Density

	-162 to 513	1.2543	0.28084	540.15
Calculations:	53.1184			
Variables for Density				
	Range, °F	c1	c2	c3
1,1,2-Trichloroethane	-33 to 624	0.9062	0.25475	602
1,2-Butadiene	-215 to 354	1.187	0.26114	452
1,2-Propylene glycol	-76 to 666	1.0923	0.26106	626
1,3-Butadiene	-164 to 306	1.2346	0.27216	425
1-Butanol	-128 to 554	0.98279	0.2683	563.1
1-Octanol	5 to 714	0.48979	0.24931	652.3
1-Propanol	-195 to 507	1.2457	0.27281	536.8
2-Butanol	-175 to 504	0.9682	0.26244	535.9
2-Octanol	-23 to 675	0.50726	0.25972	629.8
2-Propanol	-126 to 455	1.1799	0.2644	508.3
Acetic acid	63 to 604	1.4486	0.25892	591.95
Acetic anhydride	-99 to 631	0.86852	0.25187	606
Acetone	-139 to 455	1.2332	0.25886	508.2
Acetonitrile	-47 to 523	1.3064	0.22597	545.5
Acrylic acid	55 to 648	1.2414	0.25822	615
Benzene	43 to 552	1.0259	0.26666	562.05
Benzoic acid	252 to 892	0.71587	0.24812	752

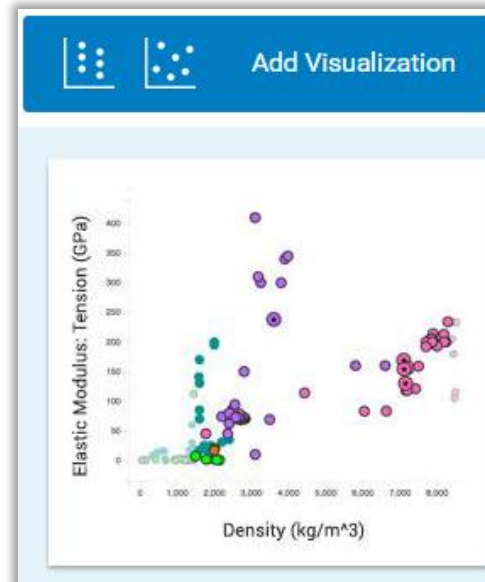
Sprawne obliczenia i symulacje wyników przy badaniach naukowych i rozwiązywaniu zagadnień

NOWO DODANA FUNKCJA ! DataVIS

- Interaktywne narzędzie z dziedziny **MATERIAŁOZNAWSTWA** do porównywania i wizualizacji właściwości materiałów
- Doskonałe do nauki materiałoznawstwa.
- Można sprawdzić i porównać **64 właściwości** spośród **220 materiałów** w **4 klasyfikacjach**
- Dołączona baza gotowych projektów

Możliwości DataVIS:

- zapisywanie ulubionych materiałów oraz projektów
- wizualizacje z wynikami można współdzielić z innymi użytkownikami, drukować oraz wyexportować wyniki w PDF dla innych użytkowników bazy



Winner of the 2017 PROSE award for best eProduct physical sciences & mathematics

DataVisTM
Material Properties
by ACCESS Engineering





Baza jest tworzona i prowadzona przez wybitnych specjalistów akademickich z różnych dziedzin inżynierii

Wydziałowa Rada Doradcza AccessEngineering i współpracownicy są wybitnymi członkami wydziałów inżynierskich. Zapewniają, że AccessEngineering utrzymuje najwyższe standardy redakcyjne i uwzględnia najnowsze osiągnięcia we wszystkich głównych dziedzinach inżynierii

SKŁAD RADY ACCESS ENGINEERING

<https://www.accessengineeringlibrary.com/pages/facultyadvisoryboard&contributors/>

Dodatkowe funkcje po założeniu własnego konta

Podgląd zawartości profilu osobistego konta w bazie:

- POLUBIONE ARTYKUŁY/KSIĄŻKI
- NOTATKI I PINEZKI NA WYKRESACH
- MOJE KOMENTARZE DO TREŚCI
- ZAKŁADKI W KSIĄŻKACH
- ZAZNACZENIA TREŚCI (CYTATY)
- HISTORIA MOICH WYSZUKIWAŃ

The screenshot shows a user account page on the DataVis website. The navigation bar includes links for HOME, SUBJECTS, INDUSTRIES, TITLES (A-Z), CURRICULUM MAPS, MY ACCOUNT, and SIGN OUT. The user's email address, krzysztof.nudzinski@abe.pl, is displayed. The page content is organized into several sections:

- Profile:** Includes a profile picture of green gears and a link to [Update personal details](#).
- Starred and Labeled:** Includes a picture of industrial pipes and links to [Starred items \(5\)](#), [Annotations & Pins \(18\)](#), and [Manage labels \(2\)](#).
- Searches and Alerts:** Includes a picture of a modern interior and links to [Saved searches \(0\)](#) and [Search history \(9\)](#).
- DataVis:** Includes the DataVis logo and a link to [My DataVis Projects](#).

On the right side, there is a **Featured Content** section with three items:

- DataVis Material Properties:** An Interactive Teaching Tool.
- PERRY'S CHEMICAL ENGINEERS' HANDBOOK:** 8TH EDITION.
- MARKS' STANDARD HANDBOOK FOR MECHANICAL ENGINEERS:** 12TH EDITION.

At the bottom of the featured content, there is a **Spreadsheet Calculators** section with an XLSX icon.

ABE IPS

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