



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

Access Engineering

to multimedialna
baza/platforma wiedzy dla :

- naukowców
- inżynierów
- kadry dydaktycznej
- studentów

Oferuje:

- regularnie aktualizowane informacje
- interaktywne funkcje online
- narzędzia personalizacji
- rozwiązywanie rzeczywistych problemów inżynierskich
- najnowsze dane ze świata inżynierii
- codzienna aktualizacja danych

ACCESS Engineering

Authoritative content. Immediate solutions.

[ABOUT](#) | [HELP](#) | [ADMINISTRATION](#) | [CONTACT US](#) | [ROAMING PASSPORT](#)

Search Access Engineering

GO

Advanced Search

[HOME](#)

[SUBJECTS](#) ▼

[INDUSTRIES](#) ▼

[TITLES \(A-Z\)](#)

[CURRICULUM MAPS](#) ▼

[SIGN IN](#)



[WELCOME TO
AccessEngineering](#)

[FOR INSTRUCTORS](#)

[FOR
PROFESSIONALS](#)

[FOR LIBRARIANS](#)

AccessEngineering offers:

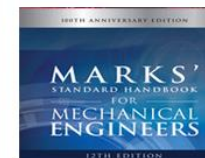
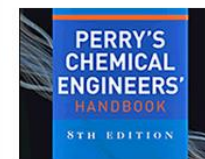
- Renowned engineering handbooks
- Faculty-created instructional videos
- Downloadable Excel calculators
- Time-saving curriculum maps
- Powerful search tools
- Interactive tables and graphs
- Global engineering news
- [DataVis](#) - the interactive data visualization tool for teaching material properties



Featured Content

DataVis
Material Properties

Interactive Teaching Tool



Browse Subjects



- ▶ [Bio](#)
- ▶ [Business Skills](#)
- ▶ [Chemical](#)
- ▶ [Civil](#)
- ▶ [Communications](#)
- ▶ [Electrical/Electronics](#)
- ▶ [Energy/Petroleum](#)

- ▶ [Environmental/Sustainable](#)
- ▶ [Industrial](#)
- ▶ [Makerspace](#)
- ▶ [Materials](#)
- ▶ [Mechanical](#)
- ▶ [Operations Management](#)
- ▶ [Schaum's Outlines](#)
- ▶ [Software](#)

Tools & Media

- ▶ [Calculators](#)
- ▶ [Curriculum Maps](#)
- ▶ [DataVis - Material Properties](#)
- ▶ [DataVis Projects](#)
- ▶ [Engineering News](#)
- ▶ [Graphs](#)
- ▶ [Tables](#)
- ▶ [Tutorials](#)
- ▶ [Videos](#)

Today's Global Engineering news

[How Cummins Became an Engine of Energy Efficiency](#)

[Smoked out: Researchers develop a new wildfire smoke](#)

[Genetically engineered virus spins gold into beads](#)

[Tweets by @MHEngineering](#)

Access Engineering

to znane 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”**

Dodatkowe funkcjonalności

Nowo dodane książki
oraz
polecane pozycje
z danej dziedziny inżynierii

The screenshot displays the ACCESS Engineering website interface. At the top, there are navigation links: ABOUT, HELP, ADMINISTRATION, CONTACT US, and ROAMING PASSPORT. The main header features the ACCESS Engineering logo with the tagline "Authoritative content. Immediate solutions." and a search bar with a "GO" button and a link to "Advanced Search". Below the header is a navigation menu with buttons for HOME, SUBJECTS, INDUSTRIES, TITLES (A-Z), and CURRICULUM MAPS, along with a SIGN IN button. The main content area is titled "BioEngineering" and is circled in red. It features a row of three book covers: "Biomedical Engineering & Design Handbook Vol 1, 2nd Ed.", "Biomedical Engineering & Design Handbook Vol 2, 2nd Ed.", and "Applied Biofluid Mechanics". Each book has a "Contents" link. To the right, a "Featured Content" section is also circled in red, showing a book cover for "Biofuels Refining and Performance" and "APPLIED BIOFLUID MECHANICS 2ND EDITION". Below the featured content, there are sections for "Tools & Media" (with links for Graphs and Videos), "Books" (with a list of book titles and links), "Instructive Videos" (with a diagram of a mechanical part), and "Interactive Graphs" (with a graph showing a curve).

Narrow your search ?

Filter by Subject

- Electrical & electronics engineering (140)
- Civil engineering (113)
- Mechanical engineering (107)
- Environmental & sustainable engineering (73)
- Chemical engineering (65)
- [Show more...](#)

Filter by Type

- < All Types**
- book (750)**

Filter by Process

- ▶ Design (73)
- ▶ Operations (42)
- ▶ Calculations (33)
- ▶ Modeling & Simulation (33)
- ▶ Sustainability (18)
- [Show more...](#)

Home

Search Results

Your search for **Type: book** returned **750** results.

[Dean's Analytical Chemistry Handbook, Second Edition](#)

Dean's Analytical Chemistry Handbook, Second Edition Chemical 9780071410601 2012-01-01 Pradyot Patnaik Ph.D., is the Director of the Environmental Chemistry Laboratory of the Interstate Sanitation Commission, Staten Island, New York, and a Research Investigator for the Center for Environmen ...

Type: Book

[Digital Analysis of Remotely Sensed Imagery](#)

Digital Analysis of Remotely Sensed Imagery Electrical 9780071604659 2012-01-01 Jay Gao is the author of this McGraw-Hill Professional publication. Identifies and introduces new trends in image analysis. Digital Analysis of Remotely Sensed Imagery provides exhaustive coverage of the entire ...

Type: Book

[Construction Administration for Architects](#)

Construction Administration for Architects Civil 9780071622318 2012-01-01 Greg Winkler is the author of this McGraw-Hill Professional publication. The ideal desktop architectural guide to navigating the construction process and anticipating, avoiding, and managing liability risks. This inva ...

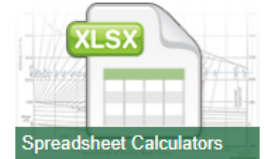
Type: Book

Ponad **750** tytułów książek
oraz:

- **170 943** artykułów
- **5 813** grafik
- **930** filmów

Dodatkowe funkcjonalności

- ▶ [Bio](#)
- ▶ [Business Skills](#)
- ▶ [Chemical](#)
- ▶ [Civil](#)
- ▶ [Communications](#)
- ▶ [Electrical/Electronics](#)
- ▶ [Energy/Petroleum](#)
- ▶ [Environmental/Sustainable](#)
- ▶ [Industrial](#)
- ▶ [Makerspace](#)
- ▶ [Materials](#)
- ▶ [Mechanical](#)
- ▶ [Operations Management](#)
- ▶ [Schaum's Outlines](#)
- ▶ [Software](#)
- ▶ [Calculators](#)
- ▶ [Curriculum Maps](#)
- ▶ [DataVis - Material Properties](#)
- ▶ [DataVis Projects](#)
- ▶ [Engineering News](#)
- ▶ [Graphs](#)
- ▶ [Tables](#)
- ▶ [Tutorials](#)
- ▶ [Videos](#)



Today's Global Engineering news

[Chicago Architects Shower](#)

[Aldermen with Campaign Cash](#)

Source: Engineering News-Record

Date: 06/12/2018 23:05:38

[Breakthrough in blood vessel engineering](#)

Source: Science Daily

Date: 06/12/2018 20:38:24

[The École Polytechnique massacre 'left a scar,' says first woman to have engineering school named after her](#)

Source: CBC

Date: 06/12/2018 17:40:23

[More news](#)

AKTUALNE NOWOŚCI ZE ŚWIATA NAUKI I INŻYNIERII

NOWOŚCI OD WYDAWNICTWA NA TWEETER


Tweets by @MHEngineering

 **MHEngineering**
@MHEngineering

Looking for the perfect gift for the chemical engineer in your life this holiday season? Your search is over: bit.ly/2xyrzaG
#chemicalengineering
#biochemicalengineering
#engineering #STEM #holidays
#giftideas



Dec 4, 2018

 **MHEngineering**
@MHEngineering

Now available – the 2nd edition

#chemicalengineering #STEM #holidays #giftideas

[Embed](#)

[View on Twitter](#)

Podręczniki z serii „SHAUM’S OUTLINES”

HOME SUBJECTS ▼ INDUSTRIES ▼ TITLES (A-Z) CURRICULUM MAPS ▼

MY ACCOUNT SIGN OUT

krzysztof.rudzinski@abe.pl

Featured Content

DataVis
Material Properties
Interactive Teaching Tool

PERRY'S CHEMICAL ENGINEERS' HANDBOOK
8TH EDITION

Tools & Media

Calculators
Curriculum Maps
DataVis - Material Properties
DataVis Projects
Engineering News
Graphs
Tables
Tutorials
Videos

Tweets by @MHEngineering

DOSKONAŁE I BARDZO POPULARNE PODRĘCZNIKI Z SERII „SHAUM’S OUTLINES” Z ZADANIAM I WIELOMA PRZYKŁADAMI ROZWIĄZAŃ:

-ALGEBRA

-INŻYNIERIA

-FIZYKA

-CHEMIA

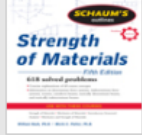
Podręczniki z serii „SHAUM’S OUTLINES”

HOME SUBJECTS ▾ INDUSTRIES ▾ TITLES (A-Z) CURRICULUM MAPS ▾


MY ACCOUNT SIGN OUT

krzysztof.rudzinski@abe.pl


Home > Subjects
Schaum's Outlines



Schaum's Outlines - Strength of Materials, 5th Edition
[Contents](#)



Schaum's Outlines - Engineering Mechanics: Statics
[Contents](#)



Schaum's Outlines - Thermodynamics for Engineers, 3rd Ed.
[Contents](#)

Curriculum Maps

- ▶ [Fluid Flow / Momentum Transfer](#)
- ▶ [Strength of Materials](#)
- ▶ [Thermodynamics](#)


Tools & Media

- [Videos](#)


Books

- ▶ [Schaum's Outlines - Advanced Calculus, Third Edition](#)
- ▶ [Schaum's Outlines - Applied Physics, Fourth Edition](#)
- ▶ [Schaum's Outlines - Biochemistry, Third Edition](#)
- ▶ [Schaum's Outlines - Biology, Fourth Edition](#)
- ▶ [Schaum's Outlines - Calculus, Sixth Edition](#)
- ▶ [Schaum's Outlines - College Algebra, Fourth Edition](#)
- ▶ [Schaum's Outlines - College Chemistry, Tenth Edition](#)
- ▶ [Schaum's Outlines - Differential Equations, Fourth Edition](#)
- ▶ [Schaum's Outline of Differential Equations, Third Edition \(archived edition\)](#)
- ▶ [Schaum's Outline of Electric Circuits, Seventh Edition **Now Available!**](#)
- ▶ [Schaum's Outlines - Electric Circuits, Sixth Edition \(archived edition\)](#)


Featured Content



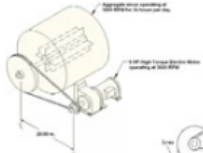
Now Available - with Videos!



Now Available - with Videos!



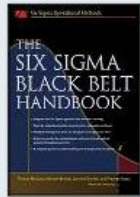
Curriculum Maps



Instructive Videos

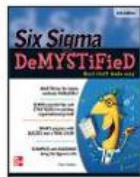
Podręczniki z serii „SIX SIGMA”

ACCESS Engineering



Six Sigma Black Belt Handbook (Six SIGMA Operational Methods)

Author(s): Thomas McCarty, Lorraine Daniels, Michael Bremer, Praveen Gupta



Six Sigma DeMYSTiFieD®, Second Edition

Author(s): Paul Keller



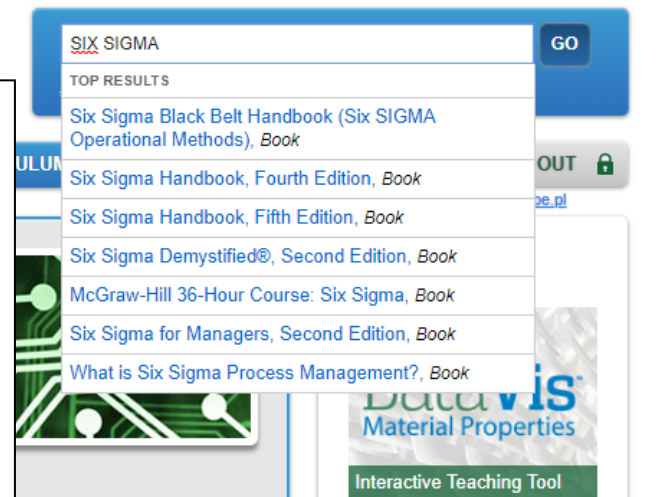
Six Sigma for Electronics Design and Manufacturing

Author(s): Sammy G. Shina



Six Sigma for Managers, Second Edition

Author(s): Greg Brue



**PODRĘCZNIKI Z ZAKRESU
ZARZĄDZANIA W BIZNESIE
RÓWNIEŻ DLA
STUDENTÓW KIERUNKÓW ŚCISŁYCH**

-ZARZĄDZANIE OPERACYJNE

-ZARZĄDZANIE PROJEKTAMI

-UMIEJĘTNOŚCI PREZENTACYJNE

Dodatkowe funkcjonalności

Tools & Media:

Baza zawiera również multimedialne/interaktywne narzędzia:

- kalkulatory
- programy nauczania
- dodatki do DataVis
- projekty DataVis
- nowości ze świata inżynierii
- grafiki(obrazy)
- interaktywne wykresy
- interaktywne tabele
- materiały video

The screenshot displays the ACCESS Engineering website. At the top left is the logo "ACCESS Engineering" with the tagline "Authoritative content. Immediate solutions." To the right is a search bar with the text "Search Access Engineering" and a "GO" button, with a link for "Advanced Search" below it. A navigation bar contains links for "HOME", "SUBJECTS", "INDUSTRIES", "TITLES (A-Z)", "CURRICULUM MAPS", and "SIGN IN".

Below the navigation bar, there are three main content areas:

- Left sidebar:** A blue vertical menu with links for "WELCOME TO AccessEngineering", "FOR INSTRUCTORS", "FOR PROFESSIONALS", and "FOR LIBRARIANS".
- Center:** A section titled "AccessEngineering offers:" with a list of features: "Renowned engineering handbooks", "Faculty-created instructional videos", "Downloadable Excel calculators", "Time-saving curriculum maps", "Powerful search tools", "Interactive tables and graphs", "Global engineering news", and "DataVis - the interactive data visualization tool for teaching material properties". An image of a red and green industrial structure is shown to the right.
- Right sidebar:** A section titled "Featured Content" featuring "DataVis Material Properties Interactive Teaching Tool", "PERRY'S CHEMICAL ENGINEERS' HANDBOOK 8TH EDITION", and "MARKS' STANDARD HANDBOOK FOR MECHANICAL ENGINEERS 12TH EDITION". Below these is a "Spreadsheet Calculators" section with an "XLSX" icon.

At the bottom, there are two columns of subject links:

- Browse Subjects:** Bio, Business Skills, Chemical, Civil, Communications, Electrical/Electronics, Energy/Petroleum, Environmental/Sustainable, Industrial, Makerspace, Materials, Mechanical, Operations Management, Schaum's Outlines, Software.
- Tools & Media (highlighted with a red box):** Calculators, Curriculum Maps, DataVis - Material Properties, DataVis Projects, Engineering News, Graphs, Tables, Tutorials, Videos.



GŁÓWNE KATEGORIE

15 głównych specjalizacji inżynierskich:

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

The screenshot displays the ACCESS Engineering website interface. At the top, there is a navigation bar with links for ABOUT, HELP, ADMINISTRATION, CONTACT US, and ROAMING PASSPORT. Below this is the ACCESS Engineering logo and the tagline "Authoritative content. Immediate solutions." A search bar is located in the top right corner, with a "GO" button and a link to "Advanced Search". The main navigation menu includes HOME, SUBJECTS (highlighted with a red circle), INDUSTRIES, TITLES (A-Z), and CURRICULUM MAPS. The SUBJECTS dropdown menu lists various engineering disciplines: BIO, BUSINESS SKILLS, CHEMICAL, CIVIL, COMMUNICATIONS, ELECTRICAL / ELECTRONICS, ENERGY / PETROLEUM, ENVIRONMENTAL / SUSTAINABLE, INDUSTRIAL, MAKERSPACE, MATERIALS, MECHANICAL, OPERATIONS MANAGEMENT, SCHAUM'S OUTLINES, and SOFTWARE. Below the navigation menu, there are sections for "Tools & Videos", "Books", and "Featured Content". The "Featured Content" section includes a book cover for "Applied Biofluid Mechanics" and a section for "Instructive Videos" with a diagram of a mechanical system. The bottom of the page features the ABE-IPS logo and the text "books online journals".

GŁÓWNE KATEGORIE

Przeglądanie bazy w/g
gałęzi przemysłu - branż

The screenshot shows the ACCESS Engineering website interface. At the top, the logo 'ACCESS Engineering' is displayed with the tagline 'Authoritative content. Immediate solutions.' To the right is a search bar with the text 'Search Access Engineering' and a 'GO' button, along with a link to 'Advanced Search'. Below the logo is a navigation bar with tabs for 'HOME', 'SUBJECTS', 'INDUSTRIES', 'TITLES (A-Z)', and 'CURRICULUM MAPS'. The 'INDUSTRIES' tab is selected, and its dropdown menu is open, listing the following categories: 'AEROSPACE AND DEFENSE', 'AUTOMOTIVE', 'BUILDING AND CONSTRUCTION', 'CHEMICAL', 'ELECTRONICS', 'MANUFACTURING', and 'OIL AND GAS'. Below the dropdown, there is a bullet point: '• [DataVis](#) - the interactive data visualization tool for teaching material properties'. To the left of the dropdown is a sidebar with links: 'WELCOME TO AccessEngineering', 'FOR INSTRUCTORS', 'FOR PROFESSIONALS', and 'FOR LIBRARIANS'. To the right of the dropdown is a 'SIGN IN' button with a lock icon. Below the navigation bar, the page is divided into several sections. On the left, there is a 'Browse Subjects' section with a list of links: Bio, Business Skills, Chemical, Civil, Communications, Electrical/Electronics, and Energy/Petroleum. In the middle, there is a 'Tools & Media' section with a list of links: Calculators, Curriculum Maps, DataVis - Material Properties, DataVis Projects, Engineering News, Graphs, Tables, and Tutorials. On the right, there is a 'Featured Content' section with three featured items: 'DataVis Material Properties' (Interactive Teaching Tool), 'PERRY'S CHEMICAL ENGINEERS' HANDBOOK 8TH EDITION', and 'MARKS' STANDARD HANDBOOK FOR MECHANICAL ENGINEERS 12TH EDITION'. At the bottom right of the featured content, there is a 'Spreadsheet Calculators' icon with an 'XLSX' label.

GŁÓWNE KATEGORIE

Przeglądanie bazy w/g
tytułów zgromadzonych
pozycji

The screenshot displays the ACCESS Engineering website interface. At the top, the logo "ACCESS Engineering" is visible with the tagline "Authoritative content. Immediate solutions." To the right is a search bar with the text "Search Access Engineering" and a "GO" button, along with a link to "Advanced Search". Below the logo is a navigation menu with buttons for "HOME", "SUBJECTS", "INDUSTRIES", "TITLES (A-Z)" (highlighted with a red box), and "CURRICULUM MAPS". To the right of the menu is a "SIGN IN" button with a lock icon. The main content area shows "Browse (All)" and a list of search results. The first result is "15 Dangerously Mad Projects for the Evil Genius" by Dr. Simon Monk, featuring a book cover with the text "15 DANGEROUSLY MAD PROJECTS FOR THE EVIL GENIUS". The second result is "20 Makey Makey Projects for the Evil Genius" by Colleen Graves and Aaron Graves, with a cover showing "20 MAKEY MAKEY PROJECTS FOR THE EVIL GENIUS". The third result is the "2012 International Building Code® Handbook" by Douglas W. Thornburg, AIA, and John R. Henry, P.E., with a cover showing "2012 INTERNATIONAL BUILDING CODE HANDBOOK". On the right side, there is a "Featured Content" section with three items: "DataVis Material Properties" (Interactive Teaching Tool), "PERRY'S CHEMICAL ENGINEERS' HANDBOOK 8TH EDITION", and "MARKS' STANDARD HANDBOOK FOR MECHANICAL ENGINEERS 12TH EDITION". At the bottom of the featured content is a "Spreadsheet Calculators" section with an "XLSX" icon.

GŁÓWNE KATEGORIE

Przeglądanie bazy w/g
gotowych materiałów
dydaktycznych

- programy nauczania do
użycia w prowadzeniu
wykładów / kursów

Curriculum Maps – zebrany i
uszeregowany tematycznie
materiał szkoleniowy
(programy nauczania)
z **17 dziedzin**

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 is the "Advanced Search" link. The main navigation menu includes "HOME", "SUBJECTS", "INDUSTRIES", "TITLES (A-Z)", "CURRICULUM MAPS", and "SIGN IN". The "CURRICULUM MAPS" menu is expanded, showing a list of 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".

The website also features a "WELCOME TO /AccessEngineering" section, a "FOR INSTRUCTORS" section, and a "FOR PROFESSIONALS" section. A "Browse Subjects" section is visible, listing various subjects such as Bio, Business Skills, Chemical, Civil, Communications, Electrical/Electronics, Energy/Petroleum, Environmental/Sustainable, Industrial, Makerspace, Materials, Mechanical, Operations Management, Schaum's Outlines, and Software.



Wyszukiwanie podstawowe

The screenshot shows the ACCESS Engineering website interface. At the top right, there is a search bar containing the text "wireless phone" and a "GO" button. Below the search bar, there are navigation tabs: HOME, SUBJECTS, INDUSTRIES, TITLES (A-Z), and CURRICULUM MAPS. A "SIGN IN" button is also visible. The main content area displays "Search Results" for the query "wireless phone", indicating that 23 results were found. The results are filtered by type to "book". The first result is "3G Wireless Networks", and the second is "Wireless Security: Models, Threats, and Solutions". A sidebar on the left provides filtering options by subject, type, and process.

ABOUT | HELP | ADMINISTRATION | CONTACT US | ROAMING PASSPORT

ACCESS Engineering
Authoritative content. Immediate solutions.

HOME | SUBJECTS ▼ | INDUSTRIES ▼ | TITLES (A-Z) | CURRICULUM MAPS ▼ | SIGN IN

Narrow your search

Filter by Subject

- ☐ Communications engineering (8)
 - ▶ Wireless communication (5)
 - ▶ Antennae (1)
- ☐ Electrical & electronics engineering (5)
- ☐ Maker Space (4)
- ☐ Business Skills (3)
- ☐ Environmental & sustainable engineering (1)
- ☐ Bio engineering (1)
- ☐ Software engineering (1)
- ☐ Civil engineering (1)
- Show less ..

Filter by Type

< All Types

book (23)

Filter by Process

- ▶ Project Management (1)
- ▶ Calculations (1)
- ▶ Design (1)

Home

Search Results

Your search for **wireless phone** | Type: **book** returned **23** results.

3G Wireless Networks

.html Mobile communication systems. **Wireless** communication systems. Global system for mobile communications. Multimedia communications. Cell **phone** systems. Telecommunication systems. Antennas (Electronics) Internet telephony ...

Type: Book

Wireless Security: Models, Threats, and Solutions

) Security Implementation Comparison of Public-Key Cryptographic Systems Efficiency Computational overheads Key Size Comparison Bandwidth ECDLP and **Wireless** Devices Key Generation in **Wireless** Devices for IFP, DLP, and ECDLP Bandwidth in **Wireless** Devices Scalability Processing Overhead Smart cards Cellular **Phone** Networks Handheld Computers/Personal Digital Assistant (PDAs) BSAFE Crypto-C Cryptography in Embedded Hardware: FPGA and ASICs FPGA Overview FPGA-Based Cryptography Results Summary 1011404 1010507 ...

Type: Book

Wireless and Cellular Communications, Third Edition

. **Wireless** communication systems. Cell **phone** systems. Digital communications. Telecommunications systems. Analog electronic systems. Microwaves. Telecommunication Switching systems. Code division multiple access ...

Type: Book

Szukanie wg słów
kluczowych we
wszystkich książkach
oraz w słowniku

Zawężanie wyników
wyszukiwania
Wybór jednej ze
specjalizacji

Wyszukiwanie zaawansowane

Możliwość zawężenia wyników wyszukiwania o

- słowa kluczowe
- frazy z użyciem operatorów Boolean'a (AND, OR, NOT)

Możemy doprecyzować i zawęzić szukanie do określonych tematów

The screenshot shows the ACCESS Engineering website's advanced search page. At the top, there is a navigation menu with links for ABOUT, HELP, ADMINISTRATION, CONTACT US, and ROAMING PASSPORT. The ACCESS Engineering logo is prominently displayed, along with the tagline "Authoritative content. Immediate solutions." A search bar is located in the top right corner, with a "GO" button and a link to "Advanced Search" circled in red. Below the search bar, there is a navigation menu with buttons for HOME, SUBJECTS, INDUSTRIES, TITLES (A-Z), and CURRICULUM MAPS. A "SIGN IN" button with a lock icon is also visible. The main content area is titled "Advanced Search" and includes instructions on how to use search criteria, such as Boolean operators and quotation marks. There are three input fields for "Search for:", "With this author:", and "But do not search for:", with a dropdown menu set to "All of these words". Below these fields, there is a "Within:" section with three dropdown menus for "This content type:", "This subject:", and "This title:", all set to "All". A "SEARCH" button is located at the bottom of the search form. On the right side of the page, there is a "Featured Content" section with three items: "DataVis Material Properties" (Interactive Teaching Tool), "PERRY'S CHEMICAL ENGINEERS' HANDBOOK 8TH EDITION", and "MARKS' STANDARD HANDBOOK FOR MECHANICAL ENGINEERS 12TH EDITION". At the bottom right, there is a "Spreadsheet Calculators" section with an XLSX icon.



Wyszukiwanie zaawansowane

ABOUT | HELP | ADMINISTRATION | CONTACT US | ROAMING PASSPORT

ACCESS Engineering
Authoritative content. Immediate solutions.

Search Access Engineering
[Advanced Search](#)

HOME | SUBJECTS ▼ | INDUSTRIES ▼ | TITLES (A-Z) | CURRICULUM MAPS ▼ | SIGN IN

Home > Advanced Search

Advanced Search

Enter one or more search criteria below. Boolean AND, OR and NOT are supported (e.g. mechanical AND engineering). Use quotation marks (" ") to find an exact phrase (e.g. "mechanical engineering"). Use asterisks to match partial words (e.g. circuit*).

Search for:

With and/or without:

But do not search for:

Within:

This content type:

This subject:

This title:

Featured Content

DataVis
Material Properties
Interactive Teaching Tool

PERRY'S CHEMICAL ENGINEERS' HANDBOOK
8TH EDITION

MARKS' STANDARD HANDBOOK FOR MECHANICAL ENGINEERS
12TH EDITION

XLSX
Spreadsheet Calculators

Wyszukiwanie po:

- jakiegokolwiek słowa kluczowe
- autor publikacji
- wykluczenie jakiegos frazy/słowa



Przykładowe wyniki wyszukiwania

Wyszukane frazy
kluczowe są
zaznaczone
wytluszczeniem

The screenshot shows the ACCESS Engineering website with search results for "wi-fi technology". The search bar at the top right contains the query "wi-fi technology" and a "GO" button. Below the search bar, there are navigation tabs: HOME, SUBJECTS, INDUSTRIES, TITLES (A-Z), and CURRICULUM MAPS. A "SIGN IN" button is also visible. On the left side, there is a "Narrow your search" section with filters for Subject, Title, and Process. The search results are displayed in the main content area, showing a list of results for "wi-fi technology". The first result is "Grid Home Network (G.hn) Communication Standard", which is highlighted in blue. The text of this result mentions "Wi-Fi technology" in red. The second result is "Summary and Open Issues", which also mentions "Wi-Fi technology" in red. The third result is "Introduction to Wi-Fi", which also mentions "Wi-Fi technology" in red. A red arrow points from the text box on the left to the "Wi-Fi technology" text in the first result.

ACCESS Engineering
Authoritative content. Immediate solutions.

ABOUT | HELP | ADMINISTRATION | CONTACT US | ROAMING PASSPORT

HOME | SUBJECTS | INDUSTRIES | TITLES (A-Z) | CURRICULUM MAPS | SIGN IN

Home
Search Results

Your search for "wi-fi technology" returned 7 results.

Grid Home Network (G.hn) Communication Standard
G.hn technology as the single wired standard for connecting devices together that operate with coax cable, power-line carriers, and phone lines. Note that although **Wi-Fi technology** is the most popular choice for consumer home networks today, G.hn will be capable of using the technology as well. In essence ...
Type: Text
Source: [Large-Scale Solar Power System Design: An Engineering Guide for Grid-Connected Solar Power Generation](#)

Summary and Open Issues
802.15.4 standard, which designed for low power, low data rate, and short-range communications. Zigbee is used for machine-to-machine or appliance-to-appliance communications, as well as WSNs. Another emerging communication technology for WSNs is the low-power version of the well-known **Wi-Fi technology** ...
Type: Text
Source: [Smart Grid Infrastructure & Networking](#)

Introduction to Wi-Fi
) . Wi-Fi services are also available in major airlines and trains. **Wi-Fi technology** has been employed in parking and utility meters, RFID tags, health sensors, photo frames and in innovative applications such as water sprinklers, rain meters, electronic pets, smart ...
Type: Text
Source: [Video Over Wireless](#)



Przykładowe wyniki wyszukiwania

The screenshot shows the ACCESS Engineering website interface. At the top, there is a navigation menu with links for ABOUT, HELP, ADMINISTRATION, CONTACT US, and ROAMING PASSPORT. The main header features the ACCESS Engineering logo and the tagline "Authoritative content. Immediate solutions." A search bar on the right contains the text "wireless phone" and a "GO" button, with a link to "Advanced Search" below it. A secondary navigation bar includes buttons for HOME, SUBJECTS, INDUSTRIES, TITLES (A-Z), and CURRICULUM MAPS, along with a "SIGN IN" button and a lock icon. The main content area is titled "Search Results" and indicates that the search for "wireless phone" returned 50 results. A sidebar on the left, titled "Narrow your search", is highlighted with a red box and contains two sections: "Filter by Subject" and "Filter by Title". The "Filter by Subject" section lists categories such as "Communications engineering (39)", "Wireless communication (19)", "Software engineering (12)", "Operations management (6)", "Electrical & electronics engineering (2)", "Business Skills (2)", and "Civil engineering (2)". The "Filter by Title" section lists titles like "Wireless Security: Models, Threats, and Solutions (12)", "Signaling System #7, Sixth Edition (9)", "Signaling System #7, Fifth Edition (9)", "Wireless Telecommunications Networking with ANSI-41, Second Edition (4)", and "Lean Six Sigma Demystified, Second Edition (4)". The main search results area displays three results: "12-3 LPE RTP vocoding in a GSM wireless phone.", "FOREWORD", and "Over-the-Air Service Provisioning (OTASP)". Each result includes a brief description, type, and source information.

Możliwość zawężenia
wyników wyszukiwania po
kategoriach:

- Dziedzina
- Tytuł publikacji

Przykładowe wyniki wyszukiwania

Możliwość zawężenia
wyników wyszukiwania po
kategoriach:

- rodzaj multimedialnych
- rodzaj procesu

Home
Search Results Save this search

Your search for "**wireless phone**" returned **48** results.

12-3 LPE RTP vocoding in a GSM wireless phone.

Type: Figure
Source: [Wireless Security: Models, Threats, and Solutions](#)

FOREWORD

FOREWORD FOREWORD The **wireless phone** has gone from a gee-whiz gizmo to a commonplace fact of everyday life. Every one and a quarter seconds, 24 hours a day, 365 days a year, a new wireless subscriber signs on in the United States. This subscriber growth has been driven by two factors ...

Type: Text
Source: [Wireless Telecommunications Networking with ANSI-41, Second Edition](#)

Over-the-Air Service Provisioning (OTASP)

Over-the-Air Service Provisioning (OTASP) OTASP allows a subscriber to get wireless telephone service without having to visit a retail establishment. When OTASP is working properly, it makes service activation easy, it avoids programming errors from manual data entry, and it reduces the costs associated with operating retail **wireless phone**-center stores ...

Type: Text
Source: [CDMA Capacity and Quality Optimization](#)

Calling Party Pays (CPP)

: The cost of owning a **wireless phone** would be considerably lower, since subscribers would not have to pay for airtime for received calls. The number of minutes of use on a **wireless phone** would increase, since subscribers would be less reluctant to receive calls from unknown parties ...

Type: Text
Source: [Wireless Telecommunications Networking with ANSI-41, Second Edition](#)

Narrow your search

Filter by Subject

- ☑ Communications engineering (39)
- ☑ Software engineering (12)
- ☑ Operations management (6)
- ☑ Electrical & electronics engineering (2)
- ☑ Civil engineering (2)

Filter by Title

- ▶ [Wireless Security: Models, Threats, and Solutions](#) (12)
- ▶ [Signaling System #7, Sixth Edition](#) (9)
- ▶ [Signaling System #7, Fifth Edition](#) (9)
- ▶ [Wireless Telecommunications Networking with ANSI-41, Second Edition](#) (4)
- ▶ [Lean Six Sigma Demystified, Second Edition](#) (4)

Show more ...

Filter by Type

- ▶ Text (47)
- ▶ Figure (1)

Filter by Process

- ▶ Safety (2)
- ▶ Regulation (2)

Przykładowe wyniki wyszukiwania

STRESZCZENIE I PEŁNE
SZCZEGÓŁY POZYCJI

The screenshot displays the ACCESS Engineering website interface. At the top, the logo 'ACCESS Engineering' is visible with the tagline 'Authoritative content. Immediate solutions.' To the right is a search bar with the text 'Search Access Engineering' and a 'GO' button. Below the search bar are navigation tabs: HOME, SUBJECTS, INDUSTRIES, TITLES (A-Z), and CURRICULUM MAPS. A 'SIGN IN' button with a lock icon is also present.

The main content area shows the breadcrumb 'Home > Wireless Telecommunications Networking with ANSI-41, Second Edition' and the title 'Wireless Telecommunications Networking with ANSI-41, Second Edition'. To the left of the text is a small image of the book cover. The text is attributed to 'by: Randall A. Snyder, Michael D. Gallagher'.

Abstract: ALL-IN-ONE GUIDE TO ANSI-41 Revision E is the North American standard for wireless telecommunications network signaling. Written by Randall Snyder and Michael Gallagher, two of the new standard's developers, *Wireless Tel Network with ANSI-41, Second Edition* provides you with the latest need-to-know revisions, operational details, and protocol usage of the standard. This edition packs a new chapter on WIN (Wireless Intelligent Network) and a complete listing of federally mandated features and functions. You'll explore wireless telecommunications standards, signaling, and network reference models... wireless functionality... structure of the ANSI-41 standard and protocol architecture... basic intersystem handoff functions, automatic roaming functions, authentication functions, call processing functions, short-message service functions, and operations, administration, and maintenance functions.

[Full details](#)

Below the abstract is a 'Table of Contents' section with the following items:

- A. [FOREWORD](#)
- B. [PREFACE](#)
- C. [ACKNOWLEDGMENTS](#)
- 1. [Basics of Wireless Telecommunications](#)
- 2. [Wireless Telecommunications Standards](#)
- 3. [Wireless Telecommunications Network Signaling](#)

On the right side of the page, there is a 'Featured Content' section with three items:

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

At the bottom right of the featured content is an icon for 'Spreadsheet Calculators' with an 'XLSX' label.

Przykładowe wyniki wyszukiwania

W bazę wbudowany jest słownik McGraw-Hill Dictionary of Engineering który zawiera ok. 18.000 haseł, synonimów akronimów, skrótów oraz sposobów wymowy.

The screenshot shows the ACCESS Engineering website interface. At the top right, there are navigation links: ABOUT, HELP, ADMINISTRATION, CONTACT US, and ROAMING PASSPORT. The main header features the ACCESS Engineering logo and the tagline 'Authoritative content. Immediate solutions.' Below the logo is a search bar containing the word 'refraction' and a 'GO' button. A link for 'Advanced Search' is also visible. A secondary navigation bar includes buttons for HOME, SUBJECTS, INDUSTRIES, TITLES (A-Z), and CURRICULUM MAPS, along with a SIGN IN button. On the left side, a 'Narrow your search' section allows filtering by subject. A red arrow points from the text box on the left to the 'refraction' search result. The search results section shows 'Home Search Results' and states 'Your search for refraction returned 2 023 results.' A button to 'Hide dictionary definition for refraction' is present. The main result for 'refraction' includes sub-entries for 'electromagnetism' and 'physics', each with a brief definition. The 'physics' definition states: 'The change of direction of propagation of any wave, such as an electromagnetic or sound wave, when it passes from one medium to another in which the wave velocity is different, or when there is a spatial variation in a medium's wave velocity.' The 'refraction' entry also includes the phonetic transcription 'ri'frak-shan' and a source citation: 'Source: McGraw-Hill Dictionary of Scientific and Technical Terms, 6th ed., McGraw-Hill, New York, 2003.' Below the main result, there is a section titled 'Refraction' with a detailed text snippet: 'Refraction Investigation of Eqs. (10.3), (10.4), and (10.8) will show that as waves enter shallow water ($d/L < 0.5$), the wavelength and the wave celerity decrease. When the waves approach the shore in such a manner that the angle α between the wave crests and the bottom contours is greater than zero, the depth will vary from point to point along each wave crest ...' The type of the result is listed as 'Text'.

Interaktywne wykresy i tabele

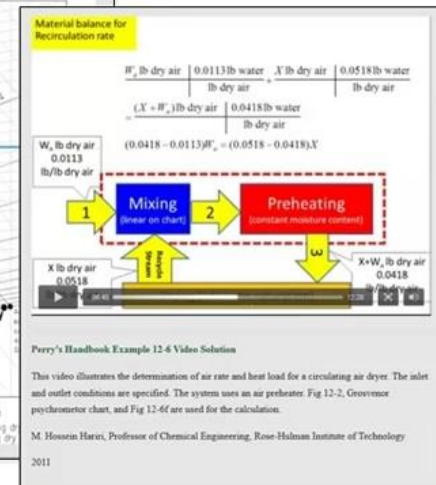
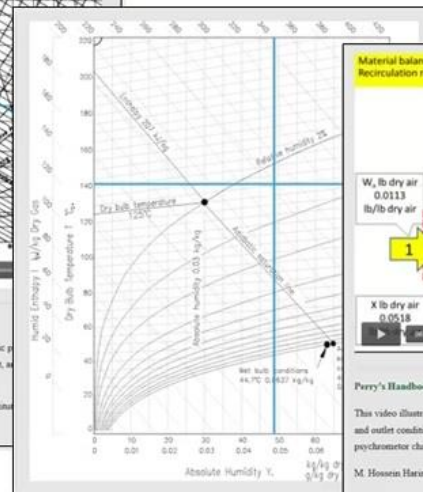
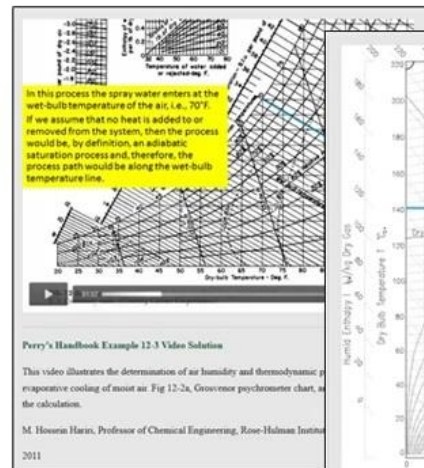
Analiza danych w pracach badawczych i projektach

Interaktywne wykresy
I wizualizacje zmieniające w trakcie wpisywania różnych danych.

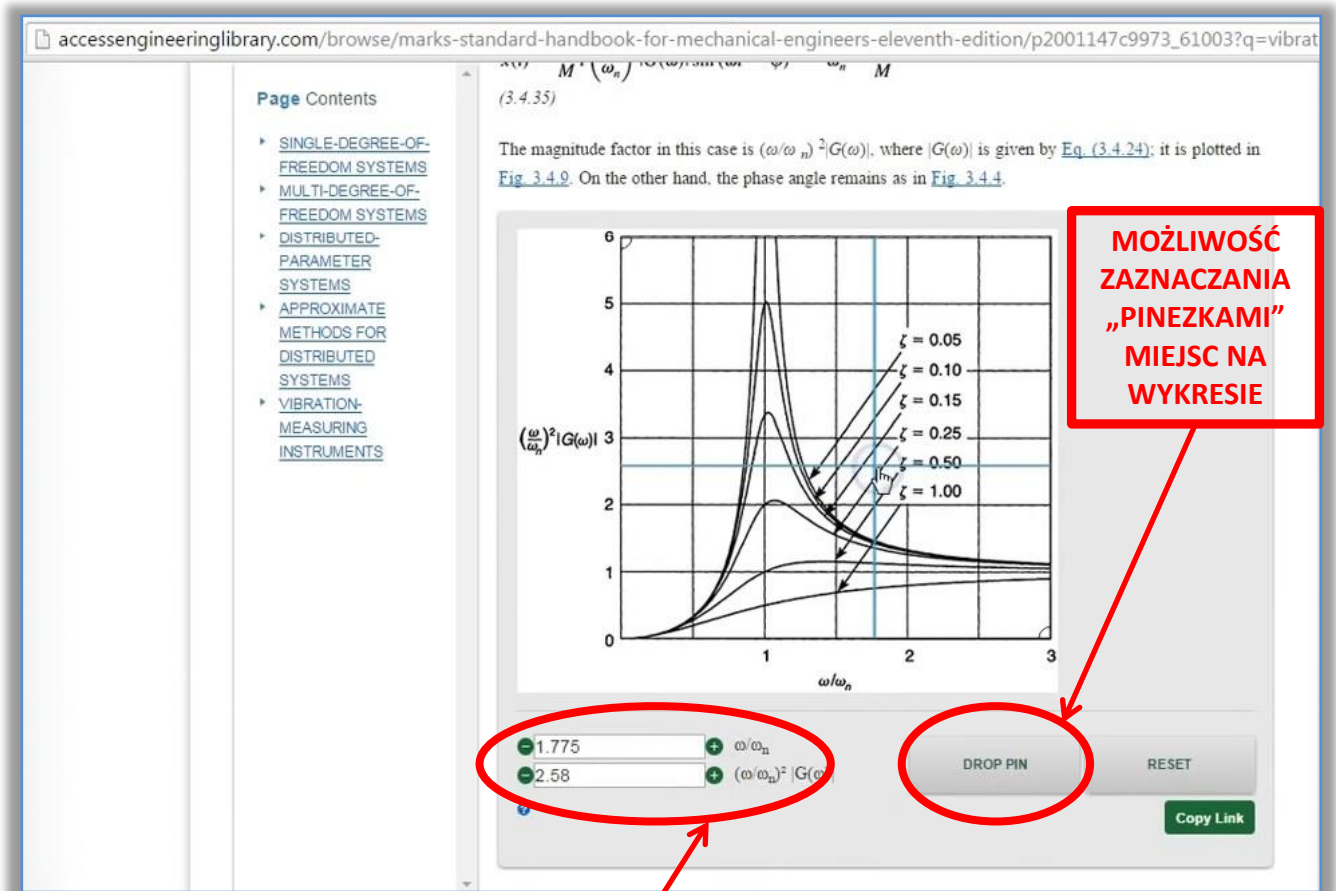
Mc
Graw
Hill
Education

ACCESS Engineering®

Authoritative content. Immediate solutions.



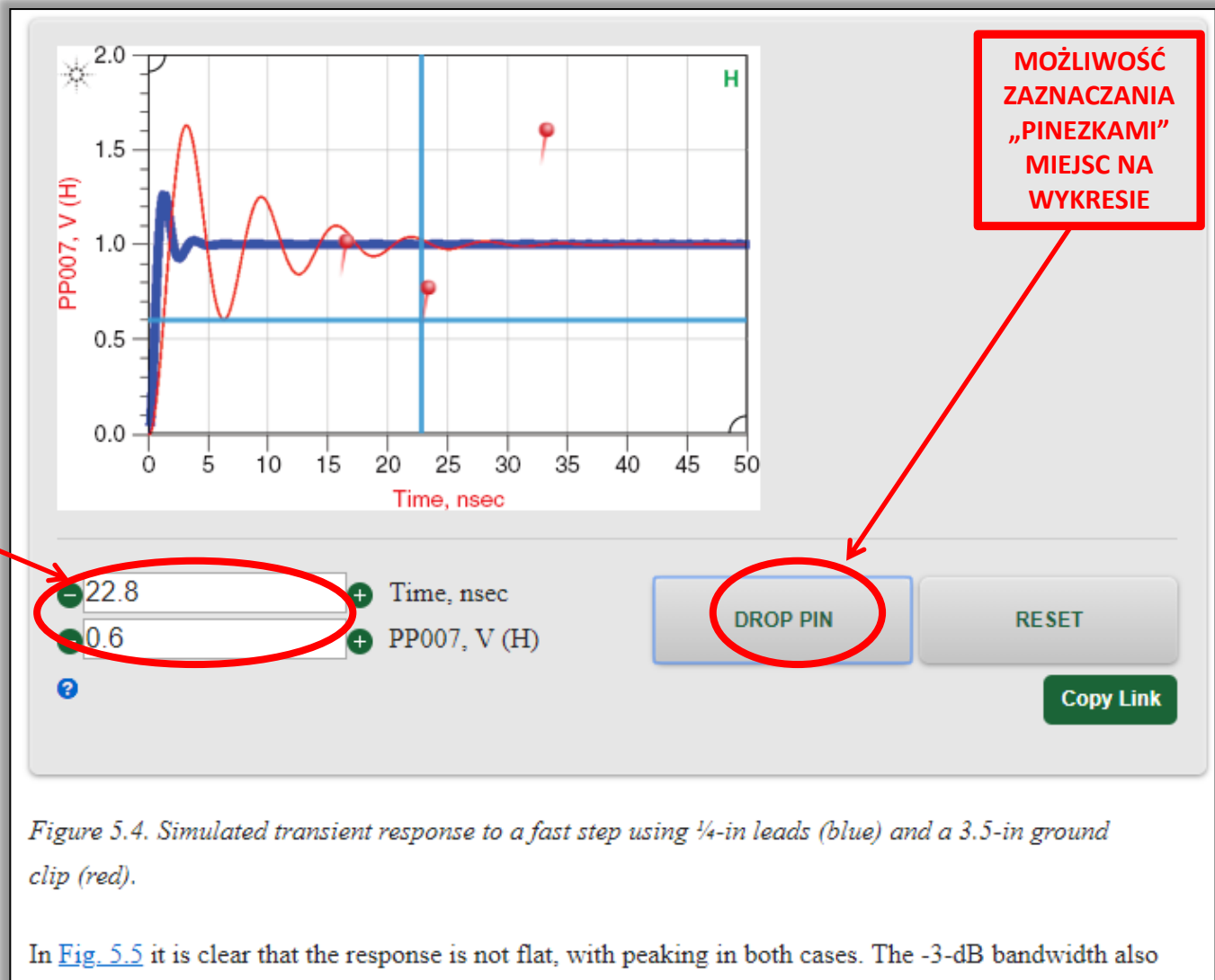
Interaktywne wykresy i tabele



MOŻLIWOŚĆ EDYCJI DANYCH WYKRESU



Interaktywne wykresy i tabele



DataVIS

Nowo dodana funkcja !

Interaktywne narzędzie do nauki materiałoznawstwa.
Sprawdza się przy wizualizacji właściwości różnych materiałów

Można sprawdzić i porównać **64** właściwości spośród **220** materiałów w **4** klasyfikacjach

ACCESS Engineering
Authoritative content. Immediate solutions.

Search Access Engineering GO
Advanced Search

HOME SUBJECTS ▾ INDUSTRIES ▾ TITLES (A-Z) CURRICULUM MAPS ▾ MY ACCOUNT SIGN OUT

krzysztof.rudzinski@abe.pl

Welcome Krzysztof.Rudzinski

Your recent **AccessEngineering** account activity:

- ▶ [Starred items \(5\)](#)
- ▶ [Annotations & Pins \(15\)](#)
- ▶ [Manage labels \(2\)](#)
- ▶ [Saved searches \(0\)](#)
- ▶ [Search history \(8\)](#)

Explore Material Properties with DataVis

- ▶ [My DataVis Projects](#)

Featured Content

DataVis
Material Properties
Interactive Teaching Tool

PERRY'S CHEMICAL ENGINEERS' HANDBOOK
8TH EDITION

MARKS' STANDARD HANDBOOK FOR MECHANICAL ENGINEERS
12TH EDITION

XL5X
Spreadsheet Calculators

Browse Subjects

- ▶ [Bio](#)
- ▶ [Business Skills](#)
- ▶ [Chemical](#)
- ▶ [Civil](#)
- ▶ [Communications](#)
- ▶ [Electrical/Electronics](#)
- ▶ [Energy/Petroleum](#)
- ▶ [Environmental/Sustainable](#)
- ▶ [Industrial](#)
- ▶ [Makerspace](#)
- ▶ [Materials](#)
- ▶ [Mechanical](#)
- ▶ [Operations Management](#)
- ▶ [Schaum's Outlines](#)

Tools & Media

- ▶ [Calculators](#)
- ▶ [Curriculum Maps](#)
- ▶ [DataVis - Material Properties](#)
- ▶ [DataVis Projects](#)
- ▶ [Engineering News](#)
- ▶ [Graphs](#)
- ▶ [Tables](#)



DataVIS

Możliwości DataVIS:

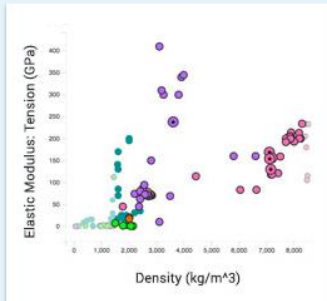
- zapisywanie ulubionych materiałów
- wizualizacje z wynikami można współdzielić z innymi użytkownikami, drukować oraz wyexportować wyniki w PDF dla innych użytkowników bazy

The screenshot displays the DataVIS interface with the following components:

- Select Materials:** A sidebar with 22 selected materials, categorized into Metal (10), Ferrous (5), Iron (2), Cast (2), Steel (3), Plain Carbon (2), Low (1), High (1), Stainless (1), Non-Ferrous (5), and Polymer (6).
- Display Settings:** Options to show all included, selected and in range only, or started only.
- Density (kg/m³) vs Density (kg/m³):** A scatter plot showing the relationship between two density values. The y-axis is labeled 'Density (kg/m³) (Linear / Log)' and the x-axis is 'Density (kg/m³) (Linear / Log)'. Both axes have a range from 0 to 1.5e+4.
- Poisson's Ratio vs Glass Transition Temperature (°C):** A scatter plot showing the relationship between Poisson's Ratio and Glass Transition Temperature. The y-axis is 'Poisson's Ratio (Linear / Log)' and the x-axis is 'Glass Transition Temperature (°C) (Linear / Log)'. The y-axis ranges from 0.1 to 0.55, and the x-axis ranges from -200 to 1000.
- Related Content:** A section for adding or editing related content.
- Tabular Data:** A table with columns for Select, Range, Star, Material, Classification, Density (kg/m³), Glass Transition Temperature (°C), and Poisson's Ratio. The table lists materials like Alumina (AI2O3): 99%, Aluminum: 1100-H14, Aluminum: 2024-T6, Aluminum: 7075-T76, American Coast Douglas Fir, Boron Fiber, Epoxy Unidirectional, and Concrete: Plain.



DataVIS



Use **DataVis** to visually explore materials and their properties.

Find and compare material property data, then save your interactive visualizations and share with others.



Compare properties across multiple materials



Find a property value for a single material

PORÓWNYWANIE RÓŻNYCH
WŁAŚCIWOŚCI WIELU
MATERIAŁÓW

SPRAWDZENIE KONKRETNEJ
WŁAŚCIWOŚCI DANEGO
MATERIAŁU

Welcome to DataVis!

Get started with our [video tutorial](#) or use one of the DataVis projects below. These faculty-created, active learning projects can be used as-is, or copied and customized for your own course.

DataVis Project Library

Materials: More than a Name	Analysis, Stresses and Deflection of Beams	Properties for Aerospace Structures
This project investigates materials with similar names (aluminum, alumina, alumina (sapphire)), focusing on the fundamental differences between them. <i>Designed by Dr. Susan P. Gentry, University of California, Davis.</i>	This project investigates analysis, stress and deflection calculations in beams made of different materials. Students will determine if the bending stress and shear stress of each beam is satisfactory for given factor of safety requirements. <i>Designed by Mustafa Mahamid, University of Illinois at Chicago.</i>	This case study looks at properties for Aerospace applications. <i>Designed by Kathleen Kitto, Western Washington University.</i>
Open Project	Open Project	Open Project

GOTOWE PROJEKTY PORÓWNYWANIA WŁAŚCIWOŚCI MATERIAŁÓW – DOŁĄCZONE OD WYDAWCY

DataVIS – EKTRAN GŁÓWNY

The screenshot shows the DataVis software interface with several red annotations:

- DODAWANIE KOLEJNYCH PROJEKTÓW**: Points to a plus sign icon in the top navigation bar.
- DODAWANIE KOLEJNYCH WIZUALIZACJI PORÓWNAŃ**: Points to the "Add Visualization" button in the top left.
- WŁAŚCIWOŚCI MATERIAŁU, KASOWANIE PORÓWNIANIA**: Points to the top right toolbar.
- WŁĄCZANIE/WYŁĄCZANIE KOLEJNYCH MATERIAŁÓW**: Points to the "Select Materials" sidebar.
- PRZESUWANIE WYKRESU, ZAZNACZANIE MATERIAŁÓW, POWIĘKSZANIE WIDOKU, COFANIE WPROWADZONYCH ZMIAN**: Points to the central chart's toolbar.
- WIZUALIZACJA JEDNEGO MATERIAŁU LUB WSZYSTKICH MATERIAŁÓW**: Points to the "Display Settings" section.

The interface includes a top navigation bar with "Save", "Share", "Export Page", and "New" buttons. The main area displays a scatter plot of "Density (kg/m³)" for five material categories: Metal, Polymer, Ceramic, Composite, and Advanced. The y-axis ranges from 0 to 1.8e+4. The x-axis has a range from 100 to 1.93e+4. The "Select Materials" sidebar shows 221 materials selected, with checkboxes for Metal (124), Polymer (32), Ceramic (28), Composite (31), and Advanced (6). The "Display Settings" section has radio buttons for "Show all included", "Show selected and in range only", and "Show starred only".

DataVIS – TABELA DANYCH

PORÓWNYWANYCH MATERIAŁÓW

Display Settings

- Show all included
- Show selected and in range only
- Show starred only

[More Settings](#)

Related Content [Add/Edit](#)

Tabular Data [Reorder Columns](#) [Export CSV](#)

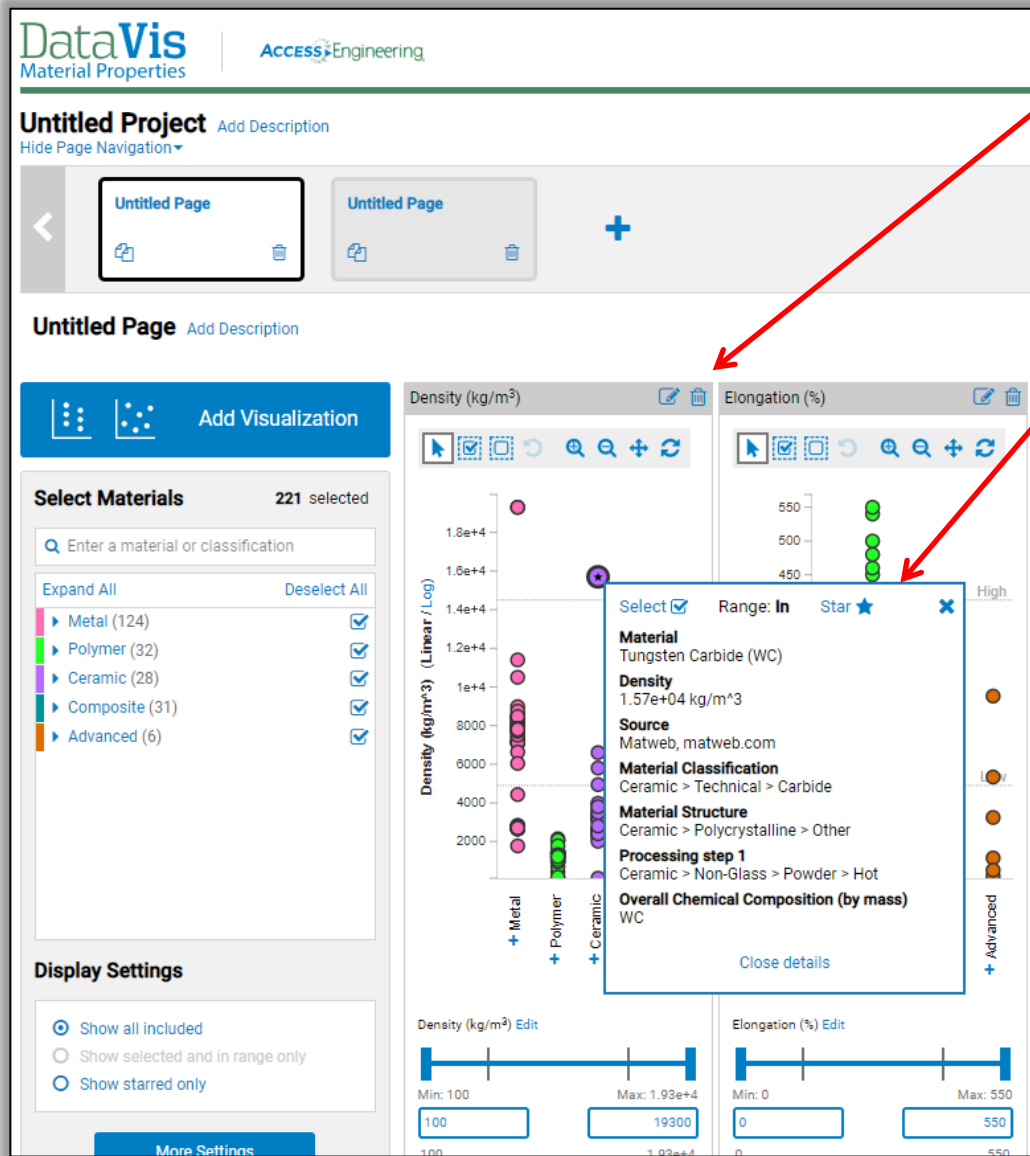
SORTOWANIE PO RODZAJACH DANYCH

EXPORT DANYCH DO EXCELLA

Select	Range	Star	Material	Classification	Density (kg/m ³)	Elongation (%)
<input checked="" type="checkbox"/>	In	☆	Alumina (Al2O3): 96%	Ceramic	3800	0
<input checked="" type="checkbox"/>	In	☆	Alumina (Al2O3): 98%	Ceramic	3900	0
<input checked="" type="checkbox"/>	In	☆	Alumina (Al2O3): Sapphire: MarkeTech, Single Crystal	Ceramic	3980	0.5
<input checked="" type="checkbox"/>	In	☆	Alumina Oxide - Silicon oxide (3(Al2O3)-2(SiO2)): Mullite	Ceramic	2800	0.2
<input checked="" type="checkbox"/>	In	☆	Aluminum: 1100-H14	Metal	2710	6.0
<input checked="" type="checkbox"/>	In	☆	Aluminum: 1100-H16	Metal	2710	2.5
<input checked="" type="checkbox"/>	In	☆	Aluminum: 1100-O	Metal	2710	22
<input checked="" type="checkbox"/>	In	☆	Aluminum: 2011-T3	Metal	2830	15
<input checked="" type="checkbox"/>	In	☆	Aluminum: 2024-O	Metal	2780	12



DataVIS – TABELA DANYCH



2 WIZUALIZACJE PORÓWNAWCZE:
- GĘSTOŚĆ MATERIAŁÓW
- WYDŁUŻANIE SIĘ MATERIAŁU

WŁAŚCIWOŚCI MATERIAŁU -
WĘGLIK WOLFRAMU

DataVIS – możliwości pracy z danymi

Access provided by McGraw-Hill Education (organization) Sign Out
Citation My Projects Help Home

Copy of - Untitled Project Add Description
Hide Page Navigation ▾

Save Save As Share Export Page New

Untitled Page Add Description View Tabular Data

Add Visualization

Select Materials 221 selected

Enter a material or classification

Expand All Deselect All

- Metal (124)
- Polymer (32)
- Ceramic (28)
- Composite (31)
- Advanced (6)

Display Settings

Tensile Strength (MPa)

Melting Temperature (°C) vs Specific Heat Capacity (kJ/kg-K)

- zapisywanie ulubionych wizualizacji
- porównań
- współdzielenie wizualizacji z innymi użytkownikami
- wyexportowanie wyników w PDF lub wydrukowanie

Interaktywne kalkulatory Excell

Kalkulatory Excell pozwalające na sprawne obliczenia i symulacje wyników przy badaniach naukowych i rozwiązywaniach zagadnień

The screenshot displays the ACCESS Engineering website. At the top, there is a search bar with the text "Search Access Engineering" and a "GO" button. Below the search bar is a navigation menu with options: HOME, SUBJECTS, INDUSTRIES, TITLES (A-Z), and CURRICULUM MAPS. The user is logged in as Krzysztof.Rudzinski, with a "MY ACCOUNT" and "SIGN OUT" link. The main content area includes a welcome message, a list of recent account activities (Starred items, Annotations & Pins, Manage labels, Saved searches, Search history), and a section for exploring Material Properties with DataVis. There are also sections for "Browse Subjects" and "Tools & Media". The "Tools & Media" section lists various resources, including "Spreadsheet Calculators" which is highlighted with a red circle. The "Featured Content" section on the right shows "DataVis Material Properties" and "PERRY'S CHEMICAL ENGINEERS' HANDBOOK".

ACCESS Engineering
Authoritative content. Immediate solutions.

Search Access Engineering GO
Advanced Search

HOME SUBJECTS INDUSTRIES TITLES (A-Z) CURRICULUM MAPS

MY ACCOUNT SIGN OUT
krzysztof.rudzinski@abe.pl

Welcome Krzysztof.Rudzinski

Your recent AccessEngineering account activity:

- Starred items (5)
- Annotations & Pins (15)
- Manage labels (2)
- Saved searches (0)
- Search history (8)

Explore Material Properties with DataVis

- My DataVis Projects

Browse Subjects

- Bio
- Business Skills
- Chemical
- Civil
- Communications
- Electrical/Electronics
- Energy/Petroleum
- Environmental/Sustainable
- Industrial
- Makerspace
- Materials
- Mechanical
- Operations Management
- Schaum's Outlines

Tools & Media

- Calculators
- Curriculum Maps
- DataVis - Material Properties
- DataVis Projects
- Engineering News
- Graphs
- Tables

Featured Content

- DataVis Material Properties
Interactive Teaching Tool
- PERRY'S CHEMICAL ENGINEERS' HANDBOOK
8TH EDITION
- MARKS' STANDARD HANDBOOK FOR MECHANICAL ENGINEERS
50TH ANNIVERSARY EDITION
- Spreadsheet Calculators

Interaktywne kalkulatory Excell

Kalkulatory Excell

Wybór układu jednostek
SI lub US

**KALKULATOR MUSIMY
POBRAĆ I OTWORZYĆ W
EXCELL'U**

Authoritative content. Immediate solutions. [Advanced Search](#) Search within this title

HOME SUBJECTS ▾ INDUSTRIES ▾ TITLES (A-Z) CURRICULUM MAPS ▾ MY ACCOUNT SIGN OUT

krzysztof.rudzinski@abe.pl

Home

Compressible Fanno Flow Through a Pipe ☆

Title: Compressible Fanno Flow Through a Pipe

Contributor: Harlan Bengtson, Ph.D., P.E., Former Dean of Engineering, Southern Illinois University Edwardsville

Published Date: September/2018

Content Type: Spreadsheet

Description:

Fanno Flow calculations for adiabatic compressible gas flow in a pipe are very time-consuming as they require multiple levels of difficult calculations using tables and iterative solutions. This Excel workbook streamlines these calculations by automating the iterative calculation of the friction factor and the overlaying iterative solution of the Fanno Flow equation.

Incompressible flow calculations are made first to check whether the incompressible flow calculations are adequate. If compressible flow calculations are required, worksheets using a Fanno Flow Calculator are provided to calculate the frictional pressure drop, flow rate or required diameter based on input of the other pipe flow parameters and inlet gas temperature and pressure. The calculations can be made for either turbulent or laminar flow and can include the effect of minor losses.

There is also a worksheet that allows the user to obtain the density and viscosity for any of 21 listed gases at the user specified temperature and pressure

[Download SI Workbook](#) [Download US Workbook](#)

Featured Content

DataVis Material Properties

Interactive Teaching Tool

PERRY'S CHEMICAL ENGINEERS' HANDBOOK 8TH EDITION

MARKS' STANDARD HANDBOOK FOR MECHANICAL ENGINEERS 12TH EDITION

XLSX Spreadsheet Calculators

Interaktywne kalkulatory Excell

LIQUID DENSITY

Click at right to use this drop down menu to choose the forced convection configuration you will be using.

Flow thru Annulus

The temperature information you enter on the worksheet selected here will be used to determine fluid properties in this worksheet.

Select a Liquid (Enter Values in yellow cells only)

Click at right to use the dropdown menu to Select Liquid

Tetrahydrofuran

Temperature Range (°F): -162 to 513

Liquid Temp. for Prop. Estimation (°F): 125.03

NOTE: The temperature above is the bulk mean liquid temp. or the film temp. from the selected config. worksheet.

Density from above menu selection: 53.12 lbm/ft³

OR

Enter a Liquid Density Obtained Elsewhere

Liquid Density (lbm/ft³):

NOTE: If the liquid working Temp. is above its boiling pt at atmosp. pressure, then the pressure must be above its vapor pressure.

Choose "Other Liquid" (alphabetical in the dropbox list above) if you want to enter liquid properties obtained elsewhere.

Liquid Density Result: 53.12 lbm/ft³ (from menu selection)

Unit Conversion: 1.651 slugs/ft³

ŻÓLTE POLA - WPISYWANIE DANYCH

RODZAJE DOSTĘPNYCH KALKULATORÓW

If the working liquid temperature is above the atmospheric boiling

	Excel Vlc
Calculations:	-162 to 513 1.2543 0.28084 540.15
Range, °F	53.1184
Variables for Density	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
Bromobenzene	24 to 747 0.8296 0.26622 670.15

Dodatkowe funkcje po założeniu własnego konta

Aby w pełni skorzystać z bazy Access Engineering i wykorzystać wszystkie jej funkcje....

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Dodatkowe funkcje po założeniu własnego konta

Będąc zalogowanym, możemy dodawać do tekstów własne:

- komentarze
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- ZAKLADKI
- ZAPISANE WYSZUKIWANIA
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▶ [Starred items \(0\)](#)

▶ [Annotations & Pins \(1\)](#)

▶ [Manage labels \(2\)](#)

▶ [Saved searches \(0\)](#)

▶ [Search history \(6\)](#)

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DataVis
Material Properties
Interactive Teaching Tool

PERRY'S CHEMICAL ENGINEERS' HANDBOOK
8TH EDITION

100TH ANNIVERSARY EDITION
MARKS' STANDARD HANDBOOK FOR MECHANICAL ENGINEERS

Browse Subjects Tools & Media



Dodatkowe funkcje po założeniu własnego konta

Podgląd zawartości profilu osobistego konta w bazie:


- POLUBIONE ARTYKUŁY/KSIĄŻKI
- NOTATKI I PINY NA WYKRESACH
- ZAKŁADKI W KSIĄŻKACH
- ZAPISANE MOJE WYSZUKIWANIA
- HISTORIA MOICH WYSZUKIWANIA

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[Annotations & Pins \(18\)](#)
[Manage labels \(2\)](#)

Searches and Alerts




[Saved searches \(0\)](#)
[Search history \(9\)](#)

DataVis Material Properties

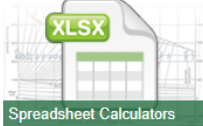




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Spreadsheet Calculators



Dodatkowe funkcje po założeniu własnego konta

Będąc zalogowanym, możemy dodawać do zaznaczonego tekstu, interesującej nas treści, własne notatki

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Search Access Engineering GO
Advanced Search Search within this title

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Home > Back to book details

MECHANICAL PROPERTIES OF MATERIALS

Apply Label Annotations ON Share Print PDF Download

Make notes on this page

1. Select some text
2. Click the icon

1 of the component temperature the
ce temperatures include the power at w
stream to them, the environment in which

References: Davis, H.E. et al., "Testing and Inspection of Welds," McGraw-Hill.
Timoshenko, S. "Strength of Materials," Part II, Van Nostrand. Richards, C.W. "Engineering Materials Science," Wadsworth. Nadai, A. "Plasticity," McGraw-Hill. Tetelman, A.S. and McEvily, A.J. "Fracture of Structural Materials," Wiley. Sanford, R.J. "Fracture Mechanics," ASTM STP-833. McClintock, F.A. and Argon, A.S. (eds.), "Mechanical Behavior of Materials," Addison-Wesley. Dieter, G.E. "Mechanical Metallurgy," McGraw-Hill. "Creep Data," ASME. ASTM Standards, ASTM International. Blazynski, T.Z. (ed.), "Plasticity and Modern Metal Forming Technology," Springer.

3.1.1. STRESS-STRAIN DIAGRAMS

The Stress-Strain Curve There are two types of stress-strain curves: engineering stress-strain curve and true stress-strain curve. The engineering tensile stress-strain curve is obtained by **static loading** of a standard specimen, that is, by applying the load slowly enough that all parts of the specimen are nearly in equilibrium at any instant. The curve is usually obtained by controlling a loading rate in a tensile machine. ASTM Standards require the loading rate not exceeding 100,000 lb/in² (70 kgf/mm²)/min. An alternative

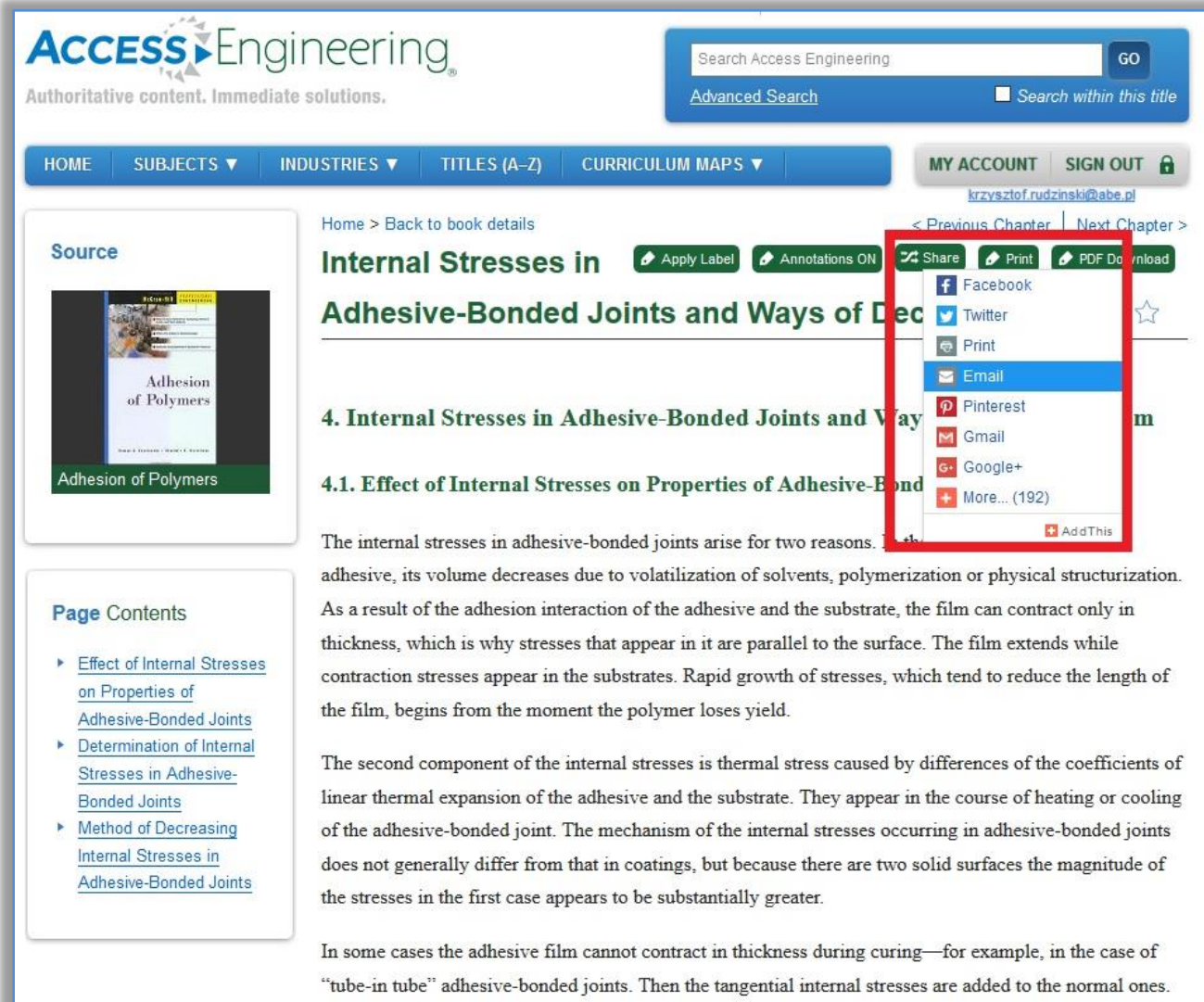
Source
Marks' Standard Handbook for Mechanical Engineers, 12th Edition

Page Contents

- ▶ [STRESS-STRAIN DIAGRAMS](#)
- ▶ [FRACTURE AT LOW STRESSES](#)
- ▶ [FATIGUE](#)
- ▶ [CREEP](#)
- ▶ [HARDNESS](#)
- ▶ [TESTING OF MATERIALS](#)

Wysyłanie linku do rozdziału do określonych użytkowników.

Możliwość współdzielenia artykułów, komentarzy, cytatów, adnotacji z innymi użytkownikami.



The screenshot displays 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 text "Advanced Search" and "Search within this title" are visible. The navigation menu includes "HOME", "SUBJECTS", "INDUSTRIES", "TITLES (A-Z)", and "CURRICULUM MAPS". On the right side, there are links for "MY ACCOUNT" and "SIGN OUT".

The main content area shows the book title "Adhesion of Polymers" and the chapter title "4. Internal Stresses in Adhesive-Bonded Joints and Ways of Dec...". Below the title, there is a section for "4.1. Effect of Internal Stresses on Properties of Adhesive-Bonded Joints". The text describes the internal stresses in adhesive-bonded joints, mentioning factors like solvent volatilization and thermal expansion.

A social sharing menu is open, showing options for Facebook, Twitter, Print, Email, Pinterest, Gmail, Google+, and More... (192). The "Email" option is highlighted, indicating the user's intention to share the link via email.

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są dostępne dla
użytkownika z poziomu
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W prosty sposób czytelnik
może wejść do już
zaznaczonego rozdziału

The screenshot shows the ACCESS Engineering website interface. At the top, there are navigation links: ABOUT | HELP | ADMINISTRATION | CONTACT US | ROAMING PASSPORT. The logo 'ACCESS Engineering' is prominently displayed with the tagline 'Authoritative content. Immediate solutions.' A search bar is located on the right with the text 'Search Access Engineering' and a 'GO' button. Below the search bar is a link for 'Advanced Search'. A blue navigation bar contains links: HOME, SUBJECTS, INDUSTRIES, TITLES (A-Z), CURRICULUM MAPS, MY ACCOUNT, and SIGN OUT. The 'My Account' section is highlighted with a red box and contains a list of links: Starred items (2), Annotations & Pins (3), Manage labels (1), Saved searches (1), and Search history (6). The main content area shows the path 'Home > My Account > Annotations & Pins' and the title 'Annotations & Pins'. There are two tabs: 'Text (2)' and 'Pins (1)'. A 'Download' button is visible. The first item is '[Marks' Standard Handbook for Mechanical Engineers, Eleventh Edition] VIBRATION' with a sub-heading 'Equation of Motion' and a description 'The dynamic behavior of many engineering systems can be approximated with good accuracy by the mass-damp'. A 'delete' button is below it. The second item is 'Read this section for Thursday' with a sub-heading 'Discrete System' and a 'delete' button. The footer contains three columns: 'All Content' (with 'All Text' below), 'Categories' (with 'Bio' and 'Industrial' below), and 'Useful Links' (with 'About' below).

Dodatkowe funkcjonalności łatwo dostępne

Możliwość
drukowania
i eksportu materiałów
do pliku PDF

The screenshot displays 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, there are navigation tabs for 'HOME', 'SUBJECTS', 'INDUSTRIES', 'TITLES (A-Z)', and 'CURRICULUM MAPS'. On the right side, there are links for 'MY ACCOUNT' and 'SIGN OUT'. The main content area shows the book title 'Piezoelectric Sensors' with a star icon. Below the title, there are buttons for 'Apply Label', 'Annotations ON', 'Share', 'Print', and 'PDF Download'. A red arrow points from the text box on the left to the 'Print' and 'PDF Download' buttons. The page content includes a 'Source' section with a book cover image, a 'Page Contents' section with a list of links, and a main text section titled '6. Piezoelectric Sensors' with a sub-section '6.1. Piezoelectric Materials'.



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