






# ACCESS Engineering from McGraw-Hill TM

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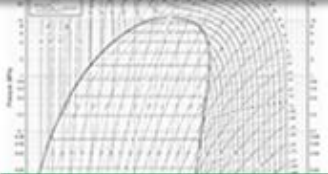
### Welcome User Services

Your recent **Access**Engineering account activity:

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



[Advanced Search](#)




Interactive Graphs

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- 750 interactive tables and graphs to keep students engaged
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- Ready-to-use curriculum maps highlight content of particular relevance to courses
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- Personalized research tools
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# Search & Browse

## Basic & Advanced Search



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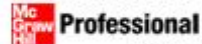
- Save starred items for later
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- View your search history
- Save searches and create search alerts

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Basic Search

Advanced Search

[GO](#)

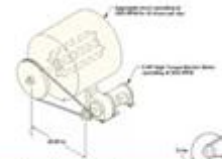
[Advanced Search](#)

Browse Subjects



Tools & Media

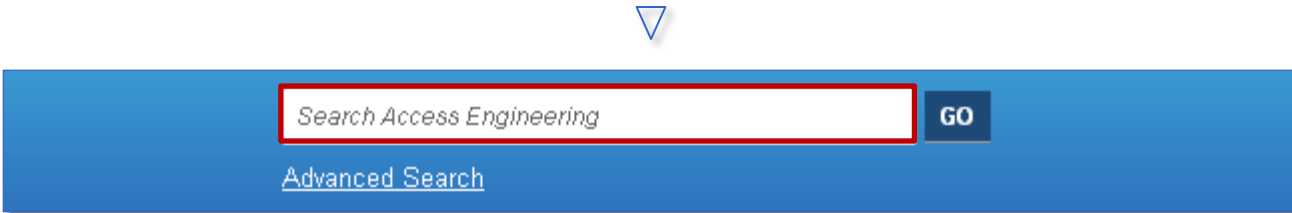
Featured Content



Instructive Videos

## Conduct A Basic Search

Enter a keyword or phrase into the search bar in the center of the homepage and click [GO](#)



*Hint:* The search engine supports advanced search techniques

- Boolean AND, OR, and NOT (e.g., mechanical AND engineering)
- Quotation marks (" ") to find an exact phrase (e.g., "mechanical engineering")
- Asterisks (\*) to match partial words (e.g., thermo\*)

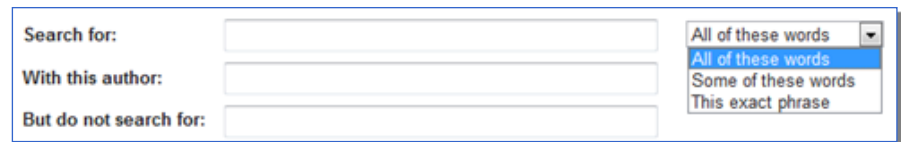
## Conduct An Advanced Search

1. Click **ADVANCED SEARCH** underneath the search bar



A search bar with a text input field containing "Search Access Engineering" and a blue "GO" button. Below the input field, the text "Advanced Search" is circled in red.

2. Enter keywords or phrases in the text boxes and select search operators




Advanced search options interface. It includes three text boxes labeled "Search for:", "With this author:", and "But do not search for:". To the right is a dropdown menu with the following options: "All of these words", "All of these words" (highlighted), "Some of these words", and "This exact phrase".

3. Refine your results by content type, subject, and/or title, and click **SEARCH**



Refinement interface. It includes a section labeled "Within:" with three dropdown menus: "This content type:" (All), "This subject:" (All), and "This title:" (All). Below these is a green "SEARCH" button.


# Narrow Your Search With Filters



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### Narrow your search

Filter by Subject

- ☐ Bio engineering (22)
- ☐ Chemical engineering (493)
- ☐ Civil engineering (38)
- ☐ Electrical & electronics engineering (30)
- ☐ Energy & petroleum engineering (197)
- ☐ Environmental & sustainable engineering (141)
- ☐ Industrial engineering (117)
- ☐ Mathematics (45)
- ☐ Mechanical engineering (83)
- ☐ Operations management (19)
- ☐ Sciences (15)

Filter by Title

- [Perry's Chemical Engineers' Handbook, Eighth Edition \(218\)](#)
- [Handbook of Petroleum Refining Processes, Third Edition \(75\)](#)
- [Petroleum Fuels Manufacturing Handbook: Including Specialty Products and Sustainable Manufacturing Techniques \(63\)](#)

## Dictionary Result

**distillation**

*chemistry*

The process of producing a gas or vapor from a liquid by heating the liquid in a vessel and collecting and condensing the vapors into liquids.

*dis·tĭlā·shən*

## Search Results

Your search for **distillation** returned **1,063** results.

[Distillation](#)

**Distillation** M. F. Doherty, Ph.D. Professor of Chemical Engineering, University of California—Santa Barbara (Section Editor) Z. T. Fidkowski, Ph.D. Process Engineer, Air Products and Chemicals Inc. (**Distillation** Systems) M. F. Malone, Ph.D. Professor of Chemical Engineering and Dean of Engineering, University of Massachusetts

Type: Text

Source: [Perry's Chemical Engineers' Handbook, Eighth Edition](#)



**Note:** Filters are only available on search result pages

## Apply & Remove Search Filters

Easily target the most relevant material by filtering search results by subject, title, content type, and process type. Multiple filters can be applied to a search.

1. Narrow your search results by clicking an applicable filter on the left-hand side of your search results page



**Narrow your search**

Filter by Subject

- ☒ Bio engineering (22)
- ☒ Chemical engineering (493)
- ☒ Civil engineering (38)

Filter by Title

- Perry's Chemical Engineers' Handbook, Eighth Edition (218)
- Handbook of Petroleum Refining Processes, Third Edition (75)

Filter by Type

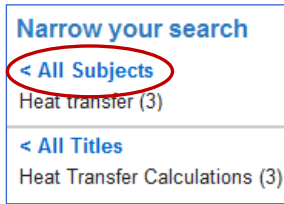
- text (1,027)
- graph (21)

Filter by Process

- Calculations (73)
- Design (28)

Each Of These Is A Filter

2. Remove a filter by clicking the name of the filter, e.g., "All Subjects"



**Narrow your search**

**< All Subjects**

Heat transfer (3)

---

**< All Titles**


Heat Transfer Calculations (3)



# Browse

Browse By Subject

Browse By Title



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

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[Advanced Search](#)

**Browse Subjects**





- ▶ [Biomedical](#)
- ▶ [Chemical](#)
- ▶ [Civil](#)
- ▶ [Communications](#)
- ▶ [Electrical/Electronics](#)
- ▶ [Energy/Petroleum](#)

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

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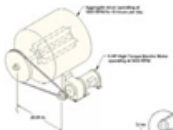
[Forgot password](#)

Email

Password

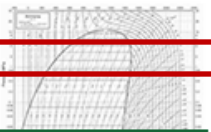
Submit

**Featured Content**



Instructive Videos

[All Videos](#)



Interactive Graphs

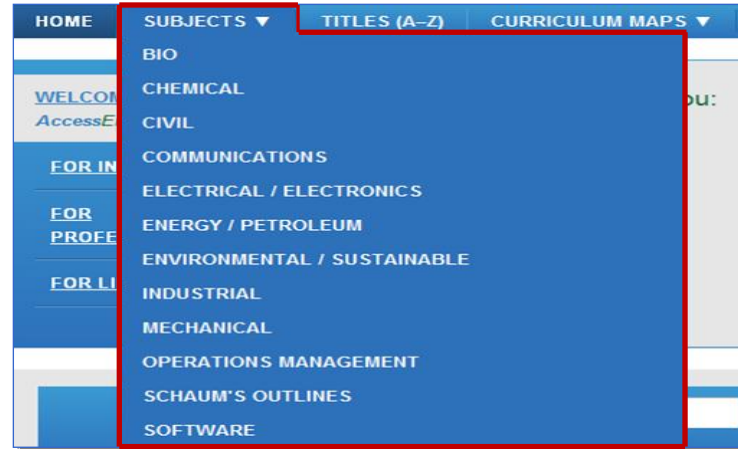
[All Graphs](#)

Browse Graphs

Browse Videos

## Browse By Subject

Either hover over **SUBJECTS** on  
the top navigation bar...



...or **BROWSE SUBJECTS** from the  
center of the homepage

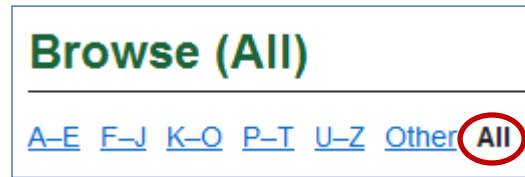


## Browse By Title

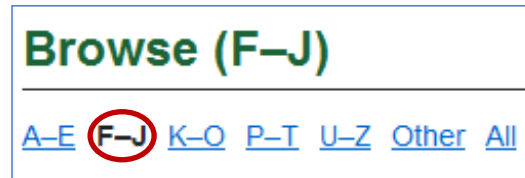
1. Click **TITLES (A-Z)** on the navigation bar



2. Either browse **ALL** titles in alphabetical order...

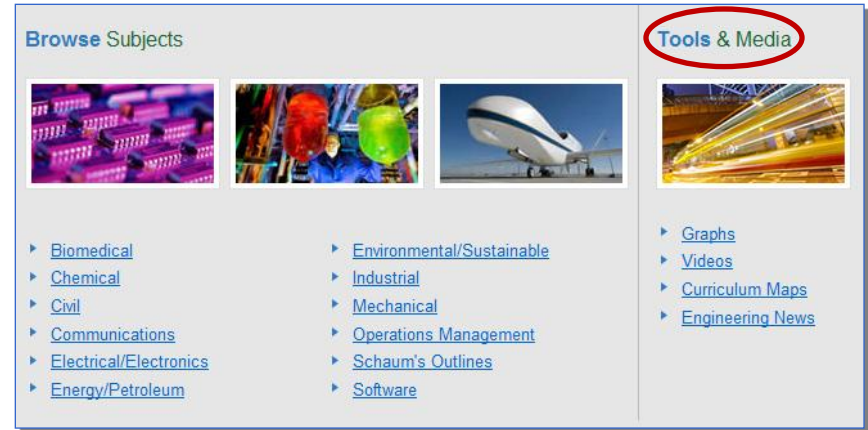


3. ...or click the alphabetical range within which the first letter of the title appears

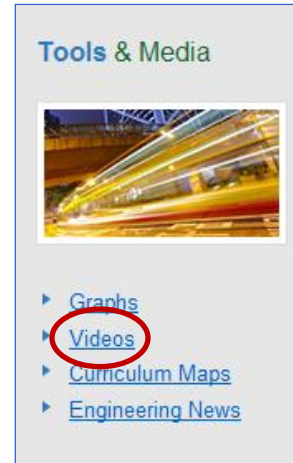



## Browse Videos

1. On the homepage, scroll down to the **TOOLS & MEDIA** box in the center of the page



2. Click **VIDEOS** to be taken to a search results page showing a list of all videos on the site



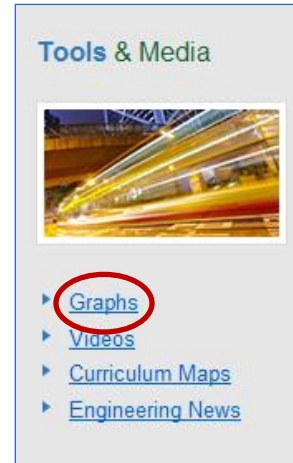
The  icon on the search results page indicates that a search result is a video


## Browse Graphs

1. On the homepage, scroll down to the **TOOLS & MEDIA** box in the center of the page



2. Click **GRAPHS** to be taken to a search results page showing a list of all graphs on the site



The  icon on the search results page indicates that a search result is a graph



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## Personal Accounts

Personal accounts allow you to save searches and receive search alerts, as well as organize, label, annotate, and highlight material of particular interest. Personal accounts are free for all users at the subscribing institution, and they take only a few seconds to create.

## Create A Personal Account



HOME

SUBJECTS ▼

TITLES (A-Z)

CURRICULUM MAPS ▼

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- Group items with labels
- Export tables to Excel
- View your search history
- Save searches and create search alerts

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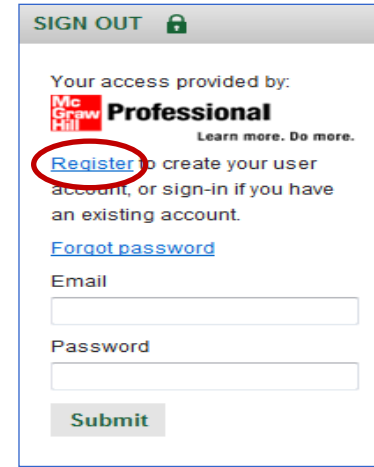
Email


Password

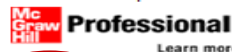
Submit

## Create A Personal Account

1. On the right-hand side of the homepage, click **REGISTER**



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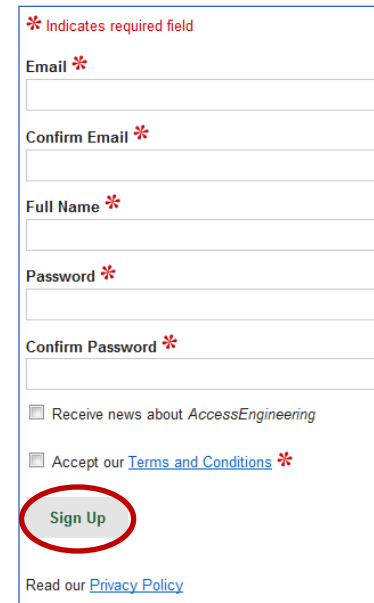
[Register](#) to create your user account, or sign-in if you have an existing account.

[Forgot password](#)

Email

Password

2. Complete the form that pops up, and then click **SIGN UP**



\* Indicates required field

Email \*

Confirm Email \*

Full Name \*

Password \*

Confirm Password \*

☐ Receive news about *AccessEngineering*

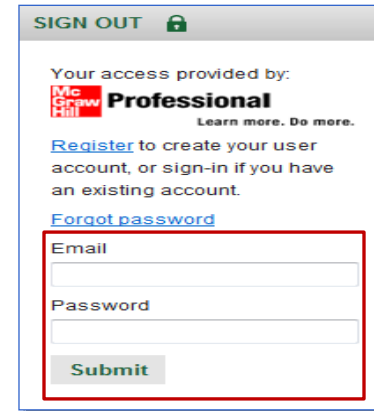
☐ Accept our [Terms and Conditions](#) \*

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## Log Into Your Personal Account

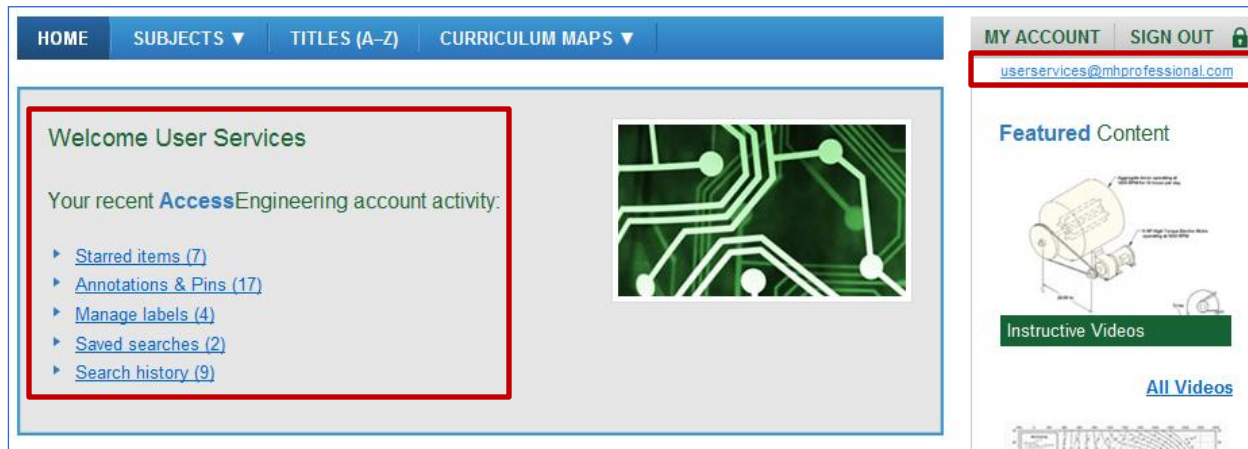
1. On the right-hand side of the homepage, enter the email and password you used when registering for a personal account, and click **SUBMIT**

2. After logging in successfully, you will see your email address on the right-hand side of the page, and the upper-most box on the homepage will show your account activity



Your Account

Email Address






## Personalized Tools

*Note:* These features are only available to users who are signed into their personal account.

## Starred Items


A starred item acts much like the “bookmark” or “favorite” function within most web browsers by storing links to pages of content for easy retrieval at a later time.

1. Navigate to any content page

2. Click on the  next to the name of the chapter




Home > Back to book details

**THERMODYNAMICS** 

**4.1. THERMODYNAMICS**


by Peter E. Liley

NOTE: References are placed throughout the text for the reader's convenience. (No material is presented relating to the calibration of thermometers at fixed points, etc. Specific details of the measurement of temperature, pressure, etc. are found in Benedict, "Fundamentals of Temperature, Pressure and Flow Measurements," 3d ed.

3. When the  becomes filled, the page gets stored in your list of starred items in your personal account



Home > Back to book details

**THERMODYNAMICS** 

**4.1. THERMODYNAMICS**

by Peter E. Liley

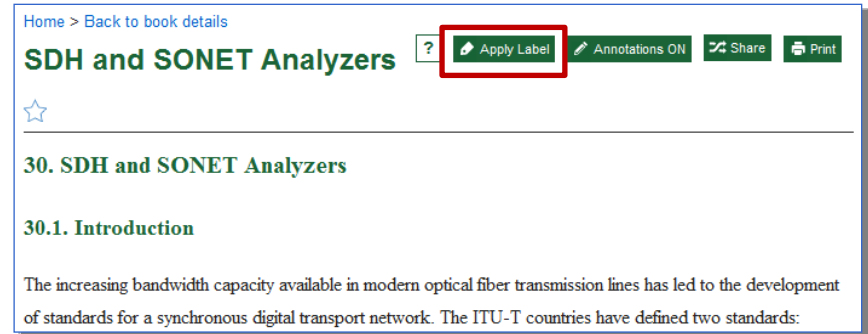
NOTE: References are placed throughout the text for the reader's convenience. (No material is presented relating to the calibration of thermometers at fixed points, etc. Specific details of the measurement of temperature, pressure, etc. are found in Benedict, "Fundamentals of Temperature, Pressure and Flow Measurements," 3d ed.

▶ A star can be removed by either re-clicking the star or deleting it from your **MY ACCOUNT** page

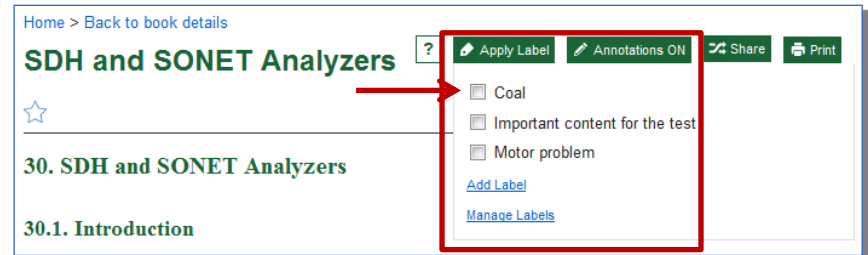
# Labels

Labels are used to sort and classify content.

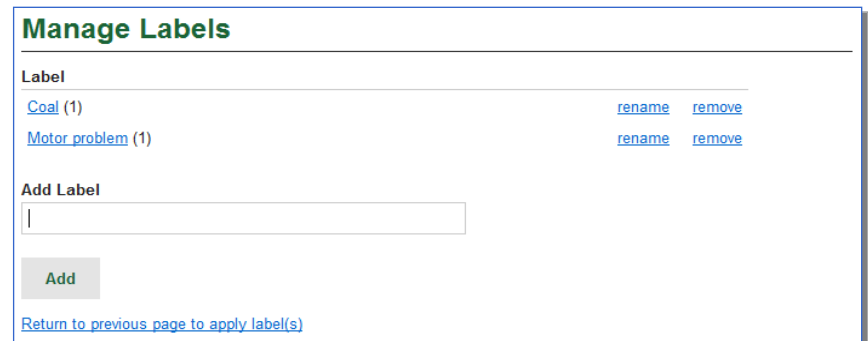
1. From any content page, hover over **APPLY LABEL**



2. Either click the box next to the applicable label, or click **ADD LABEL** if there's no applicable label



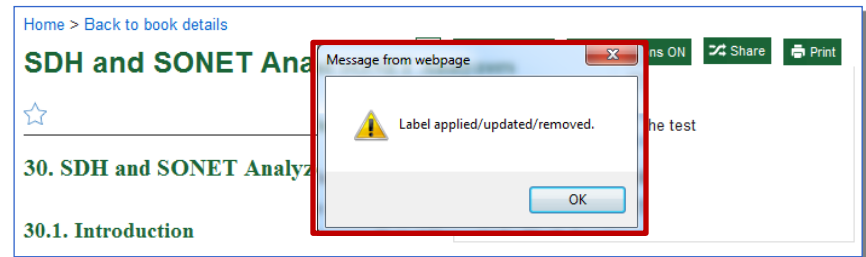
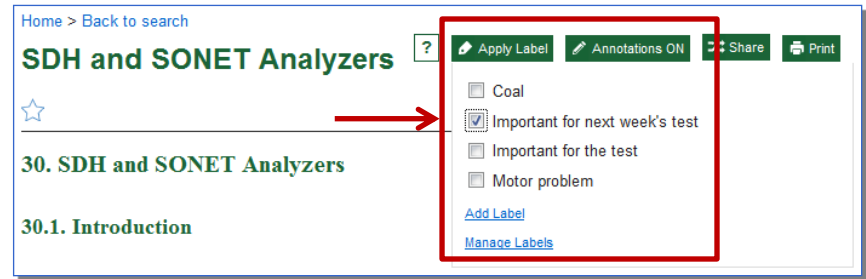
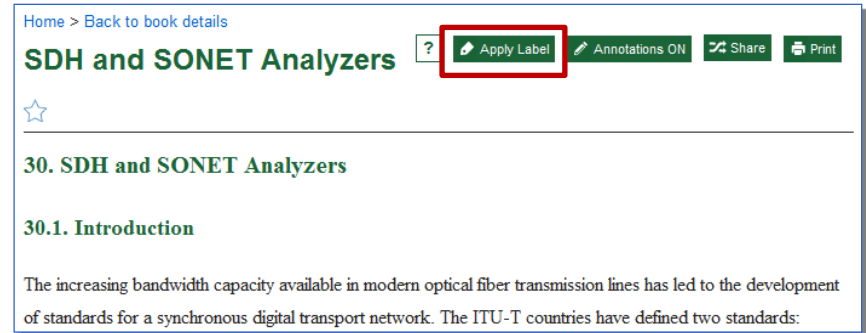
3. To create a new label, type the name of the label, click **ADD**, and then click **RETURN TO PREVIOUS PAGE TO APPLY LABEL(S)**



Continued on next slide...

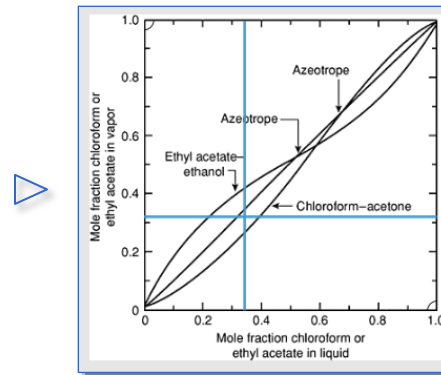
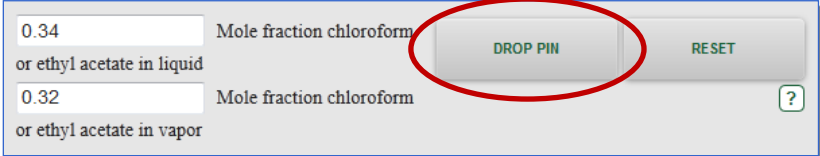
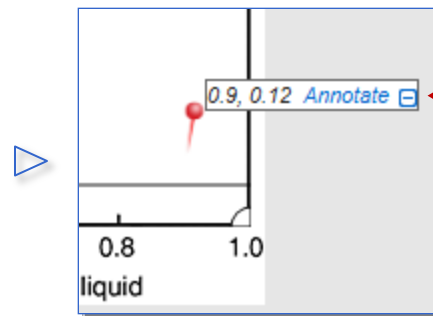
## Labels

4. When you've returned to the content page, hover over **APPLY LABEL** again
5. Click the box next to the new label
6. A dialog box will appear after you click the box to confirm the page has been saved to the applicable label



# Place And Save Push Pins On Data Points On Interactive Graphs

1. Drag the blue crosshairs around the graph to the desired data point
2. Click **DROP PIN** below the graph to place a push pin on the desired data point and automatically save it to your personal account
3. You can annotate a pin by hovering over the pin and clicking **ANNOTATE** on the text box that appears

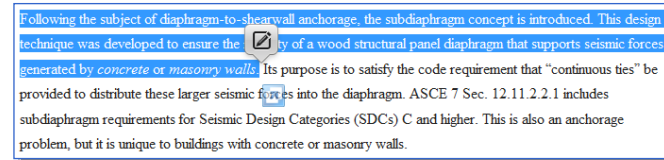




Delete A Pin By Clicking The Subtraction Symbol

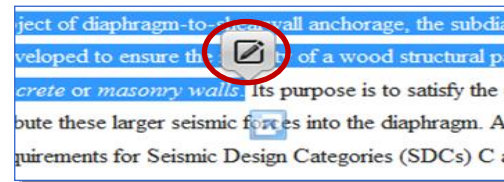
Pins are saved to **MY ACCOUNT** and can be deleted from your **MY ACCOUNT** page

## Annotate Text

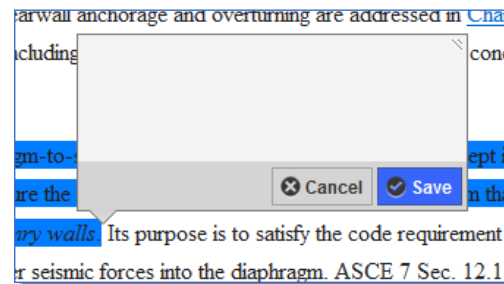
1. Highlight a block of text of particular interest on any content page



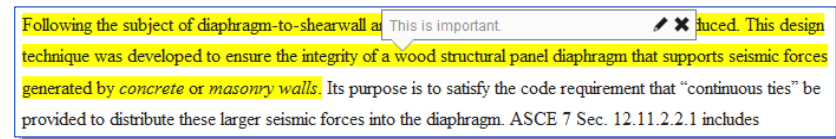
2. Click the pencil icon



3. Type your note in the text box that appears, and click **SAVE**



4. Your annotated text is now highlighted, and your notes will appear when you hover over the text



Annotations are saved to **MY ACCOUNT** and can be downloaded into a .csv file



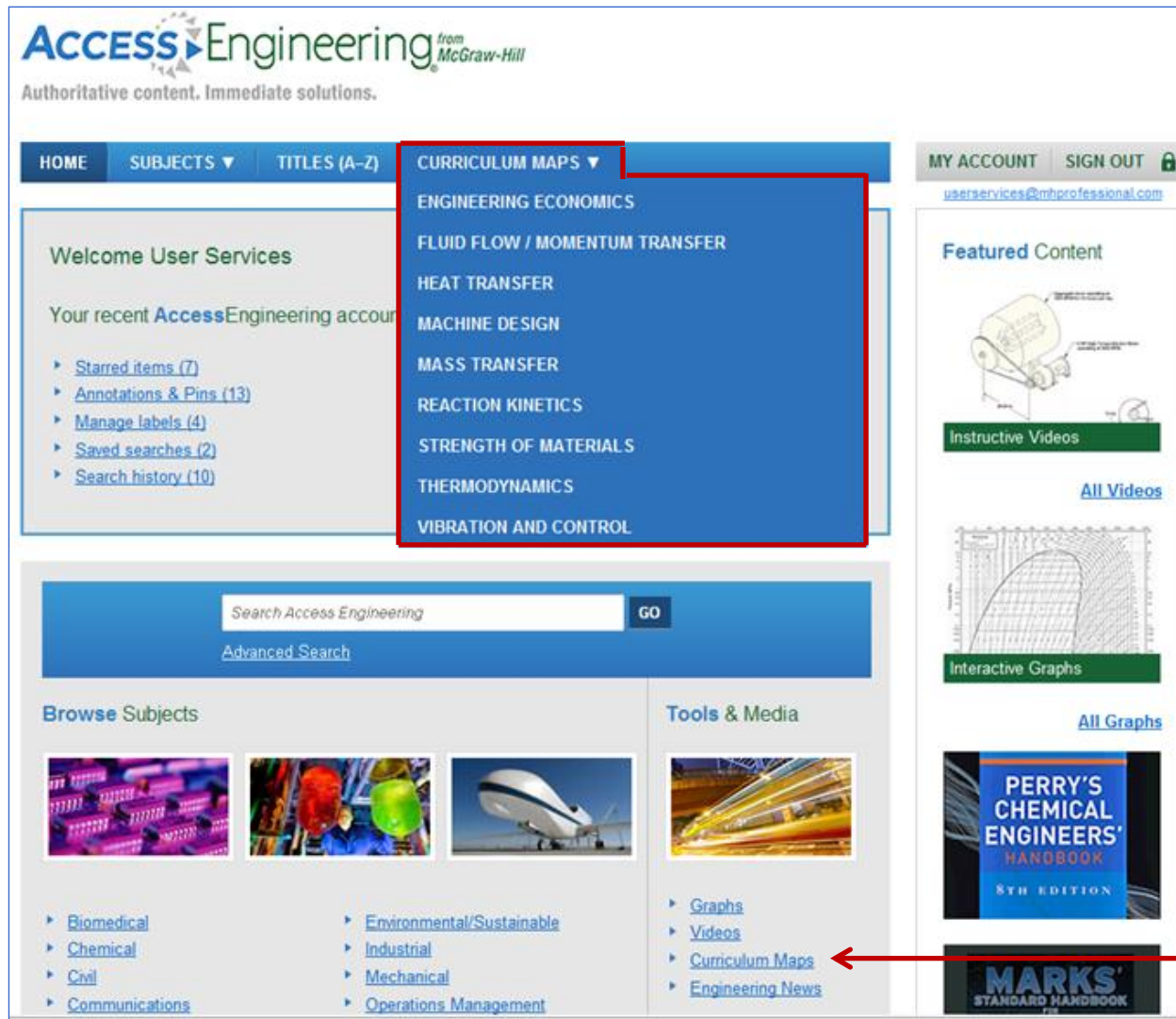
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## Curriculum Maps

Curriculum Maps are organized sets of resources that include textbook sections, tables, videos, and examples to help teach core concepts in engineering. These Maps make it easy for faculty to decide which resources to assign their students within core courses.



# Curriculum Maps



The screenshot displays the ACCESS Engineering website interface. At the top, the logo reads "ACCESS Engineering from McGraw-Hill" with the tagline "Authoritative content. Immediate solutions." Below the logo is a navigation bar with links: HOME, SUBJECTS ▼, TITLES (A-Z), and CURRICULUM MAPS ▼. The CURRICULUM MAPS dropdown menu is open, listing various engineering topics: ENGINEERING ECONOMICS, FLUID FLOW / MOMENTUM TRANSFER, HEAT TRANSFER, MACHINE DESIGN, MASS TRANSFER, REACTION KINETICS, STRENGTH OF MATERIALS, THERMODYNAMICS, and VIBRATION AND CONTROL. To the left of the menu, a "Welcome User Services" section lists user account features: Starred items (7), Annotations & Pins (13), Manage labels (4), Saved searches (2), and Search history (10). Below this is a search bar with the text "Search Access Engineering" and a "GO" button, with a link to "Advanced Search". The "Browse Subjects" section features three image thumbnails and a list of subject categories: Biomedical, Chemical, Civil, Communications, Environmental/Sustainable, Industrial, Mechanical, and Operations Management. The "Tools & Media" section includes a list of resources: Graphs, Videos, Curriculum Maps, and Engineering News. A red arrow points from the "Curriculum Maps" link in this section to the text "Browse Curriculum Maps" on the right. On the right side of the page, there is a "MY ACCOUNT" section with a "SIGN OUT" button and a user email address. Below this is a "Featured Content" section with "Instructive Videos" (showing a mechanical diagram), "All Videos", "Interactive Graphs" (showing a graph), "All Graphs", and two book covers: "PERRY'S CHEMICAL ENGINEERS' HANDBOOK 8TH EDITION" and "MARKS' STANDARD HANDBOOK".

Browse  
Curriculum Maps

# Curriculum Maps

## Curriculum Map

Map Name

Authors of This Map

Links To Subtopics

Subtopic

Relevant Materials Pertaining To The Subtopic

Course: Heat Transfer

### Authors

Don W. Green, Editor-in-Chief, Perry's Chemical Engineers' Handbook, 8th Edition, and Emeritus Distinguished Professor of Chemical and Petroleum Engineering, University of Kansas  
Marylee Southard, Associate Professor, Chemical Engineering, University of Kansas  
Ali Sadegh, Editor, Marks' Standard Handbook for Mechanical Engineers, 11th Edition

### Course Topics

- ▶ [Conductive Heat Transfer](#)
- ▶ [Convective Heat Transfer](#)
- ▶ [Heat Transfer with Phase Change](#)
- ▶ [Radiative Heat Transfer](#)
- ▶ [Heat Transfer Equipment Design](#)

Conductive Heat Transfer

Relevant Material	Type	Description	Source
<a href="#">Heat Transfer by Conduction</a>	Text	Conduction heat-transfer basics	<a href="#">Perry's Chemical Engineers' Handbook</a>
▶ <a href="#">Nomenclature and Units</a>	Table		<a href="#">Perry's Chemical Engineers' Handbook</a>
<a href="#">Thermal Conductivity</a>	Text	Methods of estimation of thermal conductivity	<a href="#">Perry's Chemical Engineers' Handbook</a>



## Questions?

Please email [techsupport@mhprofessional.com](mailto:techsupport@mhprofessional.com).