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## SUBJECT AREAS

- Chemical
- Civil
- Electrical/ Electronics
- Mechanical
- Biomedical
- Energy/ Petroleum
- Environmental
- Industrial
- Materials
- Operations Management

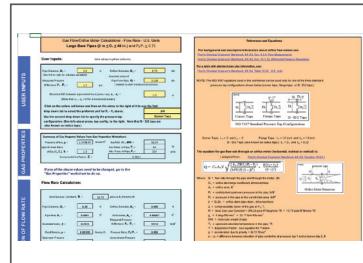
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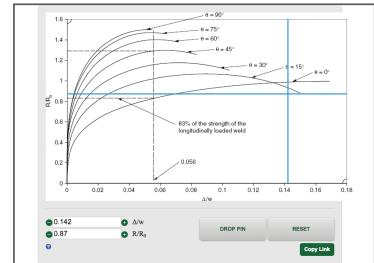
— Department head of a top-10 undergraduate engineering program and faculty advisory board member

# Inside AccessEngineering

**Spreadsheet calculators** save users time and reduce errors by streamlining calculations of more than 500 common engineering equations.



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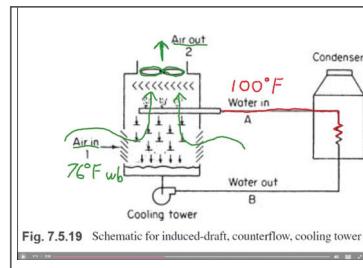
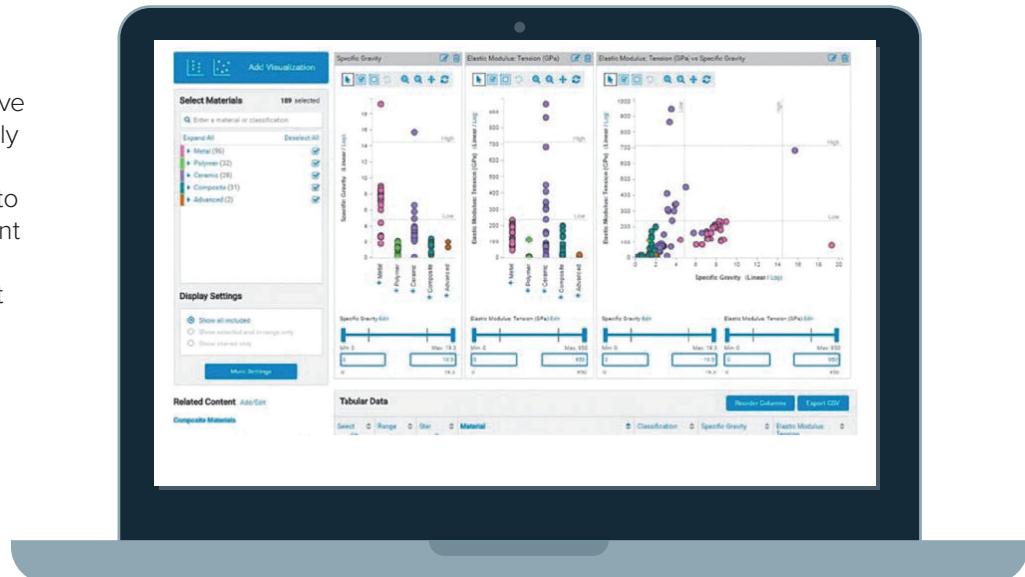


Fig. 7.5.19 Schematic for induced-draft, counterflow, cooling tower

**Curriculum maps** tie relevant content from leading engineering handbooks to core engineering course syllabi saving instructors time.

Relevant Material	Type	Description	Source
Conductor, Insulator and Semiconductor	Page	Figure 27 shows the energy levels for conductors, insulators and semiconductors.	Standard Handbook for Electrical Engineers
Diodes	Page	Figure 31.1 describes the difference between the three power devices between the diode and the Zener diode.	Standard Handbook for Electrical Engineers
Power Electronic Device Families	Text	The video demonstrates how to find the I <sub>DS(on)</sub> for an ideal diode in a DC circuit.	Schaum's Outline of Electronic Circuits
Problem 4.12: Diode Example 1	Video	The video demonstrates how to find the I <sub>DS(on)</sub> for an ideal diode in a DC circuit.	Schaum's Outline of Electronic Circuits
Problem 4.13: Diode Example 2	Video	The video demonstrates how to find the I <sub>DS(on)</sub> for an ideal diode in a DC circuit.	Schaum's Outline of Electronic Circuits
Problem 4.14: Diode Example 3	Video	The video demonstrates how to find the I <sub>DS(on)</sub> for an ideal diode in a DC circuit.	Schaum's Outline of Electronic Circuits
Diode, Zener Diode	Figure	Figure 11.1 shows a zener diode circuit with diodes that is used to protect devices from high voltage spikes.	Standard Handbook for Electrical Engineering
Power Electronic Devices	Figure	Figure 11.2 illustrates the most commonly used power electronic devices including diodes, zener diodes, and power transistors.	Standard Handbook of Electrical Engineering
Computer Power Supply	Figure	Figure 22.2 shows a computer power supply with a zener diode and a diode converter.	Standard Handbook for Electrical Engineers
Adjustable speed motor drive	Figure	Figure 23.1 is an adjustable speed motor drive with a three-phase AC motor and a DC input.	Standard Handbook for Electrical Engineers

**DataVis™**, an award-winning interactive data visualization tool, is specifically designed for teaching material properties. DataVis makes it easy to compare properties across different materials and to evaluate multiple properties simultaneously. Student users say DataVis significantly improves their understanding of material properties.



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