

## CHAPTERS

- 1 Overview
- 2 Design
- 3 Presentation
- 4 Dimensions
- 5 Uncertainty
- 6 Vectors / Matrices
- 7 Materials
- 8 Statics
- 9 Robotics
- 10 Digital Systems
- 11 Chemical Processes

## OTHER

- A Laboratory Experiments
- B Projects
  - Oral
  - Design/Construction
  - Written
- C Questions/Problems
- D Readable References

## What is Engineering?



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- 1 Mousetrap Design
- 2 Mousetrap Construction
- 3 Bridge Design (Virtual)
- 4 Chemical Processes
- 5 Humidity Interpretation (Virtual)
- 6 Logic Circuits (Virtual)
- 7 Materials
- 8 Robot Arm Control (Virtual)
- 9 Count the Trees (Virtual)
- 10 Remote Measurement
- 11 College Rankings (Virtual)
- 12 Robot Assembly
- 13 Sample Lab Report

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## PROJECTS

- 1 **Written**  
“Engineering and the Mind’s Eye”
- 2 **Written**  
Mini Research Topic
- 3 **Oral**  
Respond to a Request for Proposal (RFP)
- 4 **Design/Construction**  
Build a Bridge
- 5 **Design/Construction**  
Build a Mini-Bridge

## What is Engineering?

