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
LABORATORY EXPERIMENTS

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
**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