

Engineering Principles

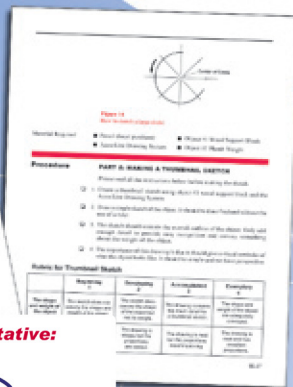
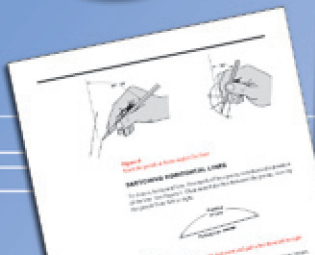
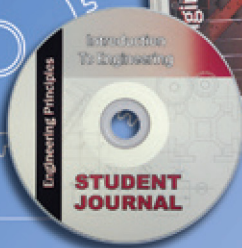
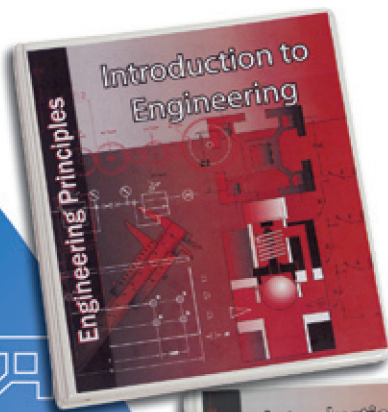
Introduction to Engineering

Science

Technology

Engineering

Math



New England Academic Representative:



Technology Education Concepts

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Introduction To Engineering

In **ECI Model 271S Introduction to Engineering Trainer**, students explore engineering careers, communication techniques, and the design process. As students learn about types of drawings, documentation, and presentations, they develop the skills needed in project development. They are challenged with a design project, and create a model of their own designs.



Components

- Wood Support Block
- Plumb Weight
- Juicer
- Extension Shaft
- Shaft Coupler
- Modeling Tool Set
- Modeling Supplies
- Accu-line Drawing System
- Cloth Tape Ruler
- Ellipse/Circle Set
- Triangle Set
- Steel Ruler
- Graph Paper Package

The Laboratory Manual

The Lab manual is designed to help students develop a thorough understanding of the subject matter. The manual is clearly written and professionally illustrated. It is printed in two-colors and comes in a quality vinyl binder.

System Familiarization

Inventory of Tools and Objects

Introduction

- Introduction to Engineering
- Advanced Level Internet Searches
- Research for Technical Information
- Engineering Careers

Communications

- Sketching and Perspective Drawings
- Orthographic Sketches
- Dimensioning
- Technical Writing
- Technical Writing-Directions
- Technical Report
- Oral Presentations

The Design Process

- Introduction
- Demonstrating the Design Process
- Innovation of a Hall Locker



Instructor's Resource Guide

The Resource Guide includes sample data and answers to quiz questions, as well as a Student Journal CD. The journal provides a convenient way for students to enter and save their data and answers to experiment questions. The instructor can also have the students print paper copies to hand in for grading.

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