



PROJECT LEAD THE WAY

PLTW



Engineering & STEM Courses at New Trier

Courses Currently Offered:

Introduction to Engineering Design

This course encourages students to think like engineers through a "design thinking" approach that allows them to develop unique solutions to design problems. Students engineer using a hands-on approach, 3D-modeling software, 3D printers, 3D scanners, laser cutters, and various other tools to bring their ideas to prototype and then to life. Students also learn how to properly document their work and communicate solutions.

⇒ IED is a prerequisite for future PLTW courses

Principles of Engineering

This course exposes students to some of the major concepts they will encounter in postsecondary engineering courses. Students employ engineering and scientific concepts in the solution of engineering design problems.

Biotechnical Engineering

This course engages students in engineering design problems related to biomedical engineering, cardiovascular engineering, genetic engineering, agricultural engineering, biotechnology, biomedical devices, and bioethics.

Digital Electronics

Digital electronics is the foundation of all modern electronic devices such as mobile phones, MP3 players, laptop computers, digital cameras, and high-definition televisions. Students are introduced to the process of combinational and sequential logic design, engineering standards, and technical documentation.

Civil Engineering and Architecture

This course introduces students to various aspects of civil engineering and architecture. Topics include, but are not limited to, building components and systems, structural design, road design, storm water management, site design, utilities and services, cost estimation, and energy efficiency.

Future course: Engineering Design and Development

Why take a PLTW elective?

- To experience "real-world" hands-on projects;
- To prepare for future college engineering programs;
- To gain exposure to multiple areas of engineering study;
- To experience cutting edge technologies and software;
- To meet and work with engineers from various industries in the area;
- To receive college credit, scholarship opportunities, and engineering experience; and
- To explore the field of engineering before deciding on a college and major.

PLTW courses develop and enhance:

- An interest in engineering, medical, or technological fields;
- A mindset for innovation;
- Design and problem-solving skills;
- Hands-on, project-based learning;
- Project-management skills;
- Professional computer and equipment operating skills;
- The connection between art, design, mathematics, and science; and
- A desire to help others and improve the quality of life.

PLTW courses emphasize innovative solutions to ill-structured problems.



Intro To Engineering Design Final Exam Answer Key

Laurence A. Belfiore



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Table of Contents Intro To Engineering Design Final Exam Answer Key

1. Understanding the eBook Intro To Engineering Design Final Exam Answer Key
 - The Rise of Digital Reading Intro To Engineering Design Final Exam Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Intro To Engineering Design Final Exam Answer Key
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Intro To Engineering Design Final Exam Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Intro To Engineering Design Final Exam Answer Key
 - Personalized Recommendations
 - Intro To Engineering Design Final Exam Answer Key User Reviews and Ratings
 - Intro To Engineering Design Final Exam Answer Key and Bestseller Lists
5. Accessing Intro To Engineering Design Final Exam Answer Key Free and Paid eBooks
 - Intro To Engineering Design Final Exam Answer Key Public Domain eBooks
 - Intro To Engineering Design Final Exam Answer Key eBook Subscription Services
 - Intro To Engineering Design Final Exam Answer Key Budget-Friendly Options

6. Navigating Intro To Engineering Design Final Exam Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Intro To Engineering Design Final Exam Answer Key Compatibility with Devices
 - Intro To Engineering Design Final Exam Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Intro To Engineering Design Final Exam Answer Key
 - Highlighting and Note-Taking Intro To Engineering Design Final Exam Answer Key
 - Interactive Elements Intro To Engineering Design Final Exam Answer Key
8. Staying Engaged with Intro To Engineering Design Final Exam Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Intro To Engineering Design Final Exam Answer Key
9. Balancing eBooks and Physical Books Intro To Engineering Design Final Exam Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Intro To Engineering Design Final Exam Answer Key
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Intro To Engineering Design Final Exam Answer Key
 - Setting Reading Goals Intro To Engineering Design Final Exam Answer Key
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Intro To Engineering Design Final Exam Answer Key
 - Fact-Checking eBook Content of Intro To Engineering Design Final Exam Answer Key
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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