

Study Guide: Chapter 1 - Introduction to Engineering

Engineering as a Profession

Definition of Engineering:

- Engineering is the application of scientific and technical knowledge to design, build, and maintain structures, machines, devices, systems, and materials to solve problems and fulfill human needs.
- It involves a systematic approach to problem-solving, considering factors such as cost, safety, reliability, and sustainability.

History and Evolution of Engineering:

- Trace the development of engineering from ancient civilizations to the modern era.
- Understand key advancements and breakthroughs that have shaped the field.
- Explore the impact of engineering on society and human progress.

Different Branches of Engineering:

- Identify and describe various branches of engineering, such as:
 - Civil engineering
 - Mechanical engineering
 - Electrical engineering
 - Chemical engineering
 - Computer engineering
 - Biomedical engineering
 - Aerospace engineering
- Discuss the specific areas of focus, skills, and applications associated with each branch.

Engineering Ethics

Ethical Principles in Engineering:

- Explore fundamental ethical principles that guide engineering practice, including:
 - Honesty and integrity
 - Public welfare
 - Competence
 - Fairness
 - Sustainability
- Understand the importance of ethical behavior in engineering decision-making.

Case Studies of Ethical Dilemmas:

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Zhe Xu



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