

Engineering Ethics Book

Engineering Ethics – Concepts, Viewpoints, Cases and Codes

2nd edition - ©2008

A 372-page engineering ethics reference book published by the National Institute for Engineering Ethics

Description of Contents:

Engineering Ethics – Concepts, Viewpoints, Cases and Codes is not designed to be used as a stand-alone text in a formal academic course in engineering ethics. However, it may be used effectively as a reference and for guidance in engineering ethics. It covers a wide variety of ethical issues related to engineering practice and is believed to be especially useful for independent study by individuals in universities and engineering firms.



The publication contains articles on intuition and three ethical theories, but it is not intended to serve as an effective reference on theoretical ethics. Its primary strengths are its very large variety of:

- Viewpoints expressed by experienced engineers, many of whom are national leaders, on ethical issues covering concepts of the importance of ethical leadership, professionalism, responsibilities and obligations of individual engineers as well as responsibilities and obligations of the engineering profession; and
- Published case studies, most based on actual events, related to fundamental and professional ethics
- Two major cases involving films on engineering ethics, *Incident at Morales* and *Gilbane Gold*, both of which are described in detail and guidance presented for analyzing and discussing the videos.

Major Sections:

- **ENGR ETHICS I: Principles, Concepts, and Codes**
 - ❖ 4 major articles: Intuition, Utilitarianism, Respect for Persons, and Virtue Ethics
 - ❖ Applications and Responsibilities
 - ❖ Professional Society Codes of Ethics and Organization Statements of Ethical Principles
- **ENGR ETHICS II: Viewpoints, Cases, and Application of Codes**
 - ❖ Viewpoints by Individual Engineers, Ethicists & Organizations
 - ❖ 2 Major Case Studies Available on DVD
 - ❖ Cases on Critical Thinking, Honesty and Responsibility
 - ❖ Fully Developed NSPE Board of Ethical Review (BER) Cases
 - ❖ Facts and Questions from NSPE BER Cases for 2001-2007
 - ❖ Applied Ethics in Professional Practice Cases
- **ENGR ETHICS III: Research in Engineering Ethics**
- **Appendices**

Principal Contributors:

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The publication contains details of relatively few ethical theories, so in that regard, it is not intended to serve as an effective reference on theoretical ethics. Its primary strengths are its very large variety of:

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- Published case studies, most based on actual events, related to fundamental and professional ethics
- Two major cases involving films on engineering ethics, *Incident at Morales* and *Gilbane Gold*, both of which are described in detail and guidance presented for analyzing and discussing the videos.

Major Sections:

- **Engineering Ethics, an Overview**
- **Principles, Concepts and Viewpoints** regarding
 - ❖ Basic Ethics
 - ❖ Engineering Ethics
- **Two Major Case Studies** on Video and Interactive DVD (Information and Suggested Assignment)
 - ❖ *Incident at Morales* (©2003) – Detailed Information and Study Guide
 - ❖ *Gilbane Gold* (©1989) - Brief Description and Suggested Assignment
- **Over 50 Cases in Basic Ethics, Professional Ethics and Engineering Ethics**
 - ❖ General Interest Cases on Fundamental Ethics
 - ❖ Cases on Critical Thinking, Honesty, and Responsibility
 - ❖ Applied Ethics in Professional Practice Cases
 - ❖ NSPE Board of Ethical Review Cases
- **Appendices**
 - ❖ Other Engineering Ethics Cases Available On The Internet
 - ❖ References Related to Engineering Ethics
 - ❖ Codes of Ethics from Several Engineering Societies and Groups

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