

---

# Engineering Ethics Concepts Cases 5th Edition

---

Leadership and Personnel Management: Concepts, Methodologies, Tools, and Applications  
Concepts, Techniques, and Cautionary Tales  
Biomedical Ethics for Engineers  
Global Engineering Ethics  
Contemporary Concepts and Cases  
The Ethics of Technology  
Contracts for Engineers  
Concepts, Viewpoints, Cases, and Codes  
Ethics and Professionalism in Engineering  
Business Ethics  
Concepts and Cases  
Concepts and Cases  
Ethics in Engineering  
An Introduction  
Engineering Ethics  
Concepts, Practices, and Strategies  
Engineering Management  
Faculty Development in Chinese Higher Education  
Epidemiology 101  
Engineering Ethics: Concepts and Cases  
Concepts, Methodologies, Tools, and Applications  
Meeting the Global Challenges, Second Edition  
Business Ethics and Ethical Business  
A Geometric Analysis of Five Moral Principles  
Infusing Ethics into the Development of Engineers  
Philosophical Foundations, Ethical Problems and Application Cases  
Ethics and Decision Making in Biomedical and Biosystem Engineering  
The Ethical Engineer  
The Future of Engineering  
Engineering Ethics for a Globalized World  
Ethical Issues in Engineering  
Ethics in Engineering Practice and Research  
Concepts and Applications  
Engineering Ethics  
The Professional Ethics Toolkit  
The Ethics of Teaching, 5th Edition  
Data Science Ethics  
The Case against Perfection  
Engineering Ethics

*Engineering  
Ethics  
Concepts  
Cases 5th  
Edition*

Downloaded  
from  
[ftp.wtvq.com](http://ftp.wtvq.com) by  
guest

---

## ANGELO LACI

---

### Leadership and Personnel Management: Concepts, Methodologies, Tools, and Applications

Springer

Autonomous cars, drones, and electronic surveillance systems are examples of technologies that raise serious ethical issues. In this analytic investigation, Martin Peterson articulates and defends five moral principles for addressing ethical issues related to new and existing technologies: the cost-benefit principle, the precautionary principle, the sustainability principle, the autonomy principle, and the fairness principle. It is primarily the method developed by Peterson for articulating and analyzing the five principles that is novel. He argues that geometric concepts such as points, lines, and planes can be put to work for clarifying the structure and scope of these and other moral principles. This geometric account is based on the Aristotelian dictum that like cases should be

treated alike, meaning that the degree of similarity between different cases can be represented as a distance in moral space. The more similar a pair of cases are from a moral point of view, the closer is their location in moral space. A case that lies closer in moral space to a paradigm case for some principle  $p$  than to any paradigm for any other principle should be analyzed by applying principle  $p$ . The book also presents empirical results from a series of experimental studies in which experts (philosophers) and laypeople (engineering students) have been asked to apply the geometric method to fifteen real-world cases. The empirical findings indicate that experts and laypeople do in fact apply geometrically construed moral principles in roughly, but not exactly, the manner advocates of the geometric method believe they ought to be applied. *Concepts, Techniques, and Cautionary Tales* Cambridge University Press

The rapid pace of technological change constantly gives rise to new ethical dilemmas,

and engineers must be as well versed in societal values and ethics as they are in the technical concepts of their disciplines. *Ethics and Professionalism in Engineering* provides a practical introduction for engineering students that emphasizes ethical decision-making. McCuen and Gilroy situate engineering ethics in the wider context of business and environmental ethics and guide students through case studies emphasizing value conflicts often encountered in engineering.

**Biomedical Ethics for Engineers** Wadsworth Publishing Company

This volume identifies, discusses and addresses the wide array of ethical issues that have emerged for engineers due to the rise of a global economy. To date, there has been no systematic treatment of the particular challenges globalization poses for engineering ethics standards and education. This volume concentrates on precisely this challenge. Scholars and practitioners from diverse national and professional backgrounds discuss the ethical issues emerging from the inherent symbiotic

relationship between the engineering profession and globalization. Through their discussions a deeper and more complete understanding of the precise ways in which globalization impacts the formulation and justification of ethical standards in engineering as well as the curriculum and pedagogy of engineering ethics education emerges. The world today is witnessing an unprecedented demand for engineers and other science and technology professionals with advanced degrees due to both the offshoring of western jobs and the rapid development of non-Western countries. The current flow of technology and professionals is from the West to the rest of the world. Professional practices followed by Western (or Western-trained) engineers are often based on presuppositions which can be in fundamental disagreement with the viewpoints of non-Westerners. A successful engineering solution cannot be simply technically sound, but also must account for cultural, social and religious constraints. For these reasons, existing

Western standards cannot simply be exported to other countries. Divided into two parts, Part I of the volume provides an overview of particular dimensions of globalization and the criteria that an adequate engineering ethics framework must satisfy in a globalized world. Part II of the volume considers pedagogical challenges and aims in engineering ethics education that is global in character. Global Engineering Ethics Cengage Learning Issues in medical ethics are rarely out of the media and it is an area of ethics that has particular interest for the general public as well as the medical practitioner. This short and accessible introduction deals with moral questions such as euthanasia as well as asking how health care resources can be distributed fairly. **Contemporary Concepts and Cases** Broadview Press CD-ROM contains: Professional society codes -- Additional cases and materials -- Links to some major on-line ethics sites - - Ethos System from Taknosys (software). The Ethics of Technology John Wiley & Sons Breakthroughs in genetics

present us with a promise and a predicament. The promise is that we will soon be able to treat and prevent a host of debilitating diseases. The predicament is that our newfound genetic knowledge may enable us to manipulate our nature—to enhance our genetic traits and those of our children. Although most people find at least some forms of genetic engineering disquieting, it is not easy to articulate why. What is wrong with re-engineering our nature? The Case against Perfection explores these and other moral quandaries connected with the quest to perfect ourselves and our children. Michael Sandel argues that the pursuit of perfection is flawed for reasons that go beyond safety and fairness. The drive to enhance human nature through genetic technologies is objectionable because it represents a bid for mastery and dominion that fails to appreciate the gifted character of human powers and achievements. Carrying us beyond familiar terms of political discourse, this book contends that the genetic revolution will change the way philosophers discuss

ethics and will force spiritual questions back onto the political agenda. In order to grapple with the ethics of enhancement, we need to confront questions largely lost from view in the modern world. Since these questions verge on theology, modern philosophers and political theorists tend to shrink from them. But our new powers of biotechnology make these questions unavoidable. Addressing them is the task of this book, by one of America's preeminent moral and political thinkers.

Contracts for Engineers Butterworth-Heinemann Enduringly profound treatise, whose lasting effect on Western philosophy continues to resonate. Aristotle identifies the goal of life as happiness and discusses its attainment through the contemplation of philosophic truth.

**Concepts, Viewpoints, Cases, and Codes** CRC Press

#####  
#####  
#####  
#####  
#####  
#####  
#####  
#####  
#####  
#####

#####  
#####  
#####  
#####  
#####  
#####  
#####  
#####

**Ethics and Professionalism in Engineering** New Age International

Featuring a wide range of international case studies, Ethics, Technology, and Engineering presents a unique and systematic approach for engineering students to deal with the ethical issues that are increasingly inherent in engineering practice.

Utilizes a systematic approach to ethical case analysis -- the ethical cycle -- which features a wide range of real-life international case studies including the Challenger Space Shuttle, the Herald of Free Enterprise and biofuels. Covers a broad range of topics, including ethics in design, risks, responsibility, sustainability, and emerging technologies Can be used in conjunction with the online ethics tool Agora (<http://www.ethicsandtechnology.com>) Provides engineering students with a clear introduction to the main ethical theories Includes an extensive

glossary with key terms Business Ethics CRC Press Engineering Ethics: Concepts and CasesCengage Learning **Concepts and Cases** Oxford University Press Engineers encounter different types of contracts at nearly every turn in their careers. Contracts for Engineers: Intellectual Property, Standards, and Ethics is a tool to enhance their ability to communicate contractual issues to lawyers—and then better understand the legal advice they receive. Building on its exploration of contracts, this book expands discussion to: Patents, copyrights, trademarks, trade secrets, and other intellectual property issues Development of standards and the bodies that govern them, as well as conformity assessment and accreditation Ethics at both the micro and macro levels—a concept under major scrutiny after several major disasters, including the Gulf of Mexico oil spill, the collapse of Boston's Big Dig, and a coal-mining accident that resulted in many deaths With a brief introduction to common law contracts and their underlying principles, including basic examples,

the book presents a sample of the Uniform Commercial Code (UCC) regarding the sale of goods. It evaluates elements of the different contracts that engineers commonly encounter, such as employee and associated consulting agreements and contracts involved in construction and government. Approaching intellectual property from a contract perspective, this reference focuses on the many different types of patents and their role in commerce. It touches on the application of trademarks and recent developments in the use of copyright as a form of contract and explains the process of obtaining patents, including the rationale for investing in them. Ethical standards receive special attention, which includes a review of several prominent professional codes of ethics and conduct for both organizations and individual engineers, particularly officers and higher-level managers. *Concepts and Cases* Cengage Learning *Biomedical Ethics for Engineers* provides biomedical engineers with a new set of tools and an understanding that the application of ethical

measures will seldom reach consensus even among fellow engineers and scientists. The solutions are never completely technical, so the engineer must continue to improve the means of incorporating a wide array of societal perspectives, without sacrificing sound science and good design principles. Dan Vallero understands that engineering is a profession that profoundly affects the quality of life from the subcellular and nano to the planetary scale. Protecting and enhancing life is the essence of ethics; thus every engineer and design professional needs a foundation in bioethics. In high-profile emerging fields such as nanotechnology, biotechnology and green engineering, public concerns and attitudes become especially crucial factors given the inherent uncertainties and high stakes involved. Ethics thus means more than a commitment to abide by professional norms of conduct. This book discusses the full suite of emerging biomedical and environmental issues that must be addressed by engineers and scientists within a global and

societal context. In addition it gives technical professionals tools to recognize and address bioethical questions and illustrates that an understanding of the application of these measures will seldom reach consensus even among fellow engineers and scientists. · Working tool for biomedical engineers in the new age of technology · Numerous case studies to illustrate the direct application of ethical techniques and standards · Ancillary materials available online for easy integration into any academic program **Ethics in Engineering** Teachers College Press *Engineering Management: Meeting the Global Challenges* prepares engineers to fulfill their managerial responsibilities, acquire useful business perspectives, and take on the much-needed leadership roles to meet the challenges in the new millennium. Value addition, customer focus, and business perspectives are emphasized throughout. Also underlined are discussions of leadership attributes, steps to acquire these attributes, the areas engineering managers are expected to add value,

the web-based tools which can be aggressively applied to develop and sustain competitive advantages, the opportunities offered by market expansion into global regions, and the preparations required for engineering managers to become global leaders. The book is organized into three major sections: functions of engineering management, business fundamentals for engineering managers, and engineering management in the new millennium. This second edition refocuses on the new strategy for science, technology, engineering, and math (STEM) professionals and managers to meet the global challenges through the creation of strategic differentiation and operational excellence. Major revisions include a new chapter on creativity and innovation, a new chapter on operational excellence, and combination of the chapters on financial accounting and financial management. The design strategy for this second edition strives for achieving the T-shaped competencies, with both broad-based perspectives and in-depth analytical skills. Such a background

is viewed as essential for STEM professionals and managers to exert a strong leadership role in the dynamic and challenging marketplace. The material in this book will surely help engineering managers play key leadership roles in their organizations by optimally applying their combined strengths in engineering and management. *An Introduction* National Academies Press This accessible, applied text covers the complex environment in which managers confront ethical decision making. Using a managerial framework, the authors address the overall concepts, processes, and best practices associated with successful business ethics programs--helping students see how ethics can be integrated into key strategic business decisions. The Seventh Edition incorporates comprehensive and rigorous updates that reflect the ever-increasing academic and governmental attention being given to this area. The textbook program provides an abundance of real-world examples and cases, as well as exercises, simulations, and practice tests that

provide plenty of opportunity for students to master the text material. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

*Engineering Ethics* ASCE Press  
As an increasing number of colleges and universities call for an epidemiologic content into liberal arts programs. This title is designed to meet the needs of instructors teaching and overview or introductory course of epidemiology. In an easy-to-read and understandable format, the text demonstrates applied approaches in everyday life and also to specific health outcomes. Key Features: Numbers case studies Text boxes and vignettes throughout Exhibits Photographs Figures Illustrations Looking for more real-life evidence? Check out Cases 1-5, 19, & 21 in Essential Case Studies in Public Health, Putting Public Health into Practice.

**Concepts, Practices, and Strategies** McGraw-Hill Science, Engineering & Mathematics  
An exploration of the ethics of practical



engineering through analyses of eighteen rich case studies. The Ethical Engineer explores ethical issues that arise in engineering practice, from technology transfer to privacy protection to whistle-blowing. Presenting key ethics concepts and real-life examples of engineering work, Robert McGinn illuminates the ethical dimension of engineering practice and helps students and professionals determine engineers' context-specific ethical responsibilities. McGinn highlights the "ethics gap" in contemporary engineering—the disconnect between the meager exposure to ethical issues in engineering education and the ethical challenges frequently faced by engineers. He elaborates four "fundamental ethical responsibilities of engineers" (FEREs) and uses them to shed light on the ethical dimensions of diverse case studies, including ones from emerging engineering fields. The cases range from the Union Carbide pesticide plant disaster in India to the Google Street View project. After examining the extent to which the actions of

engineers in the cases align with the FEREs, McGinn recapitulates key ideas used in analyzing the cases and spells out the main lessons they suggest. He identifies technical, social, and personal factors that induce or press engineers to engage in misconduct and discusses organizational, legal, and individual resources available to those interested in ethically responsible engineering practice. Combining probing analysis and nuanced ethical evaluation of engineering conduct in its social and technical contexts, The Ethical Engineer will be invaluable to engineering students and professionals. Meets the need for engineering-related ethics study. Elaborates four fundamental ethical responsibilities of engineers. Discusses diverse, global cases of ethical issues in established and emerging engineering fields. Identifies resources and options for ethically responsible engineering practice. Provides discussion questions for each case. Engineering Management John Wiley & Sons Large parts of our world

are filled with plants, and human life depends on, interacts with, affects and is affected by plant life in various ways. Yet plants have not received nearly as much attention from philosophers and ethicists as they deserve. In environmental philosophy, plants are often swiftly subsumed under the categories of "all living things" and rarely considered thematically. There is a need for developing a more sophisticated theoretical understanding of plants and their practical role in human experience. Plant Ethics: Concepts and Applications aims at opening a philosophical discussion that may begin to fill that gap. The book investigates issues in plants ontology, ethics and the role of plants and their cultivation in various fields of application. It explores and develops important concepts to shape and frame plants-related philosophical questions accurately, including new ideas of how to address moral questions when confronted with plants in concrete scenarios. This edited volume brings together for the first time, and in an interdisciplinary spirit, contemporary approaches to plant ethics

by international scholars of established reputation. It will be of great interest to students and scholars of Philosophy and Ethics.

**Faculty Development in Chinese Higher Education** Pearson

College Division

The first edition of Caroline Whitbeck's *Ethics in Engineering Practice and Research* focused on the difficult ethical problems engineers encounter in their practice and in research. In many ways, these problems are like design problems: they are complex, often ill defined; resolving them involves an iterative process of analysis and synthesis; and there can be more than one acceptable solution. In the second edition of this text, Dr Whitbeck goes above and beyond by featuring more real-life problems, stating recent scenarios and laying the foundation of ethical concepts and reasoning. This book offers a real-world, problem-centered approach to engineering ethics, using a rich collection of open-ended case studies to develop skill in recognizing and

addressing ethical issues. *Epidemiology 101* Routledge  
Bridging the gap between theory and practice, *ENGINEERING ETHICS, Fifth Edition*, will help you quickly understand the importance of your conduct as a professional and how your actions can affect the health, safety, and welfare of the public. *ENGINEERING ETHICS, Fifth Edition*, provides dozens of diverse engineering cases and a proven and structured method for analyzing them; practical application of the Engineering Code of Ethics; focus on critical moral reasoning as well as effective organizational communication; and in-depth treatment of issues such as sustainability, acceptable risk, whistleblowing, and globalized standards for engineering. Additionally, a new companion website offers study questions, self-tests, and additional case studies. Available with InfoTrac Student Collections <http://gocengage.com/info> trac. Important Notice:

Media content referenced within the product description or the product text may not be available in the ebook version.

Engineering Ethics: Concepts and Cases

Harvard University Press

In today's increasingly interconnected and global society, the protection of basic liberties is an important consideration in public policy and international relations.

Profitable social interactions can begin only when a foundation of trust has been laid between two parties.

*Human Rights and Ethics: Concepts, Methodologies, Tools, and Applications* considers some of the most important issues in the ethics of human interaction, whether in business, politics, or science and technology.

Covering issues such as cybercrime, bioethics, medical care, and corporate leadership, this four-volume reference work will serve as a crucial resource for leaders, innovators, educators, and other personnel living and working in the modern world.