

Engineering Ethics Concepts Cases 5th Edition

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[Engineering Ethics](#) Elsevier

Digital classrooms have become a common addition to curriculums in higher education; however, such learning systems are only successful if students are properly motivated to learn. *Optimizing Student Engagement in Online Learning Environments* is a critical scholarly resource that examines the importance of motivation in digital classrooms and outlines methods to reengage learners. Featuring coverage on a broad range of topics such as motivational strategies, learning assessment, and student involvement, this book is geared toward academicians, researchers, and students seeking current research on the importance of maintaining ambition among learners in digital classrooms.

[Engineering Ethics](#) New Age International

Written in a style that speaks directly to today's teacher, *The Ethics of Teaching, Fifth Edition* uses realistic case studies of day-to-day ethical dilemmas. The book covers such topics as: punishment and due process intellectual freedom equal treatment of students multiculturalism religious differences democracy teacher burnout professional conduct parental rights child abuse/neglect sexual harassment.

[The Ethical Engineer](#) Cengage Learning

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.

[Ethics, Technology, and Engineering](#) ASCE Press

Ethical practice in engineering is critical for ensuring public trust in the field and in its practitioners, especially as engineers increasingly tackle international and socially complex problems that combine technical and ethical challenges. This report aims to raise awareness of the variety of exceptional programs and strategies for improving engineers' understanding of ethical and social issues and provides a resource for those who seek to improve ethical development of engineers at their own institutions. This publication presents 25 activities and programs that are exemplary in their approach to infusing ethics into the development of engineering students. It is intended to serve as a resource for institutions of higher education seeking to enhance their efforts in this area.

[Concepts, Viewpoints, Cases, and Codes](#) McGraw-Hill Science, Engineering & Mathematics

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.

[Meeting the Global Challenges, Second Edition](#) 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).

[Concepts and Cases](#) Pearson College Division

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, whistle-blowing, 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://goengage.com/infotrac>. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

[Engineering Ethics](#) John Wiley & Sons

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.

[Concepts, Techniques, and Cautionary Tales](#) Pearson College Division

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.

[The Future of Engineering](#) Courier Corporation

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

[Engineering Ethics: Concepts and Cases](#) National Academies Press

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.

Oxford University Press

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, whistle-blowing, 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://goengage.com/infotrac>. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

[Medical Ethics: A Very Short Introduction](#) IGI Global

This work is a brief yet comprehensive introduction to the thought-provoking field of business ethics. It is organized into three parts that cover the role of business in society, the ethics of internal management, and the challenges of international

business.

Data Science Ethics Teachers College Press

Moral problems that engineers may face in their professional lives are discussed, with particular reference to corporate settings. The authors place these issues within a philosophical framework & seek to exhibit the social importance & intellectual challenge of each one.

Intellectual Property, Standards, and Ethics Springer

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.

The Professional Ethics Toolkit Wadsworth Publishing Company

This book examines a variety of different concepts related to data science ethics and techniques that can help with, or lead to, ethical concerns, whilst featuring cautionary tales that illustrate the importance and potential impact of data science ethics.

Ethics and Professionalism in Engineering Routledge

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.

Exemplary Education Activities and Programs CRC Press

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Contracts for Engineers Cambridge University Press

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.

Emerging Technologies and Ethical Issues in Engineering Harvard University Press

The Professional Ethics Toolkit is an engaging and accessible guide to the study of moral issues in professional life through the analysis of ethical dilemmas faced by people working in medicine, law, social work, business, and other industries where conflicting interests and ideas complicate professional practice and decision-making. Written by a seasoned ethicist and professional consultant, the volume uses philosophical ideas, theories, and principles to develop and articulate a definitive methodology for ethical decision-making in professional environments. Meyers offers the benefit of his expertise with clear and practical advice at every turn, guiding readers through numerous real-world examples and case studies to illustrate key concepts including role-engendered duties, conflicts of interest, competency, and the principles that underpin and define professionalism itself. Following the format of The Philosopher ' s Toolkit, The Professional Ethics Toolkit is an essential companion to the study of professional ethics for use in both the classroom and the working world, encouraging students and general readers alike to think critically and engage intelligently with ethics in their professional lives.