

# Ethical Dilemmas In Engineering

**Kenneth K. Humphreys**

Ethical Issues in Engineering Deborah G. Johnson,1991 This anthology focuses on ethical issues confronting individual engineers and the entire engineering profession.

*Contemporary Ethical Issues in Engineering* Sundar Sethy, Satya,2015-02-28 For most professions, a code of ethics exists to promote positive behavior among practitioners in order to enrich others within the field as well as the communities they serve. Similar to the medical, law, and business fields, the engineering discipline also instills a code of ethical conduct. *Contemporary Ethical Issues in Engineering* highlights a modern approach to the topic of engineering ethics and the current moral dilemmas facing practitioners in the field. Focusing on key issues, theoretical foundations, and the best methods for promoting engineering ethics from the pre-practitioner to the managerial level, this timely publication is ideally designed for use by engineering students, active professionals, and academics, as well as researchers in all disciplines of engineering.

**Global Engineering Ethics** Heinz Luegenbiehl, Rockwell Clancy,2017-07-07 *Global Engineering Ethics* introduces the fundamentals of ethics in a context specific to engineering without privileging any one national or cultural conception of ethics. Numerous case studies from around the world help the reader to see clearly the relevance of design, safety, and professionalism to engineers. Engineering increasingly takes place in global contexts, with industrial and research teams operating across national and cultural borders. This adds a layer of complexity to already challenging ethical issues. This book is essential reading for anyone wanting to understand or communicate the ethics of engineering, including students, academics, and researchers, and is indispensable for those involved in international and cross-cultural environments. - Takes a global-values approach to engineering ethics rather than prioritizing any one national or regional culture - Uses engineering case studies to explain ethical issues and principles in relatable, practical contexts - Approaches engineering from a business perspective, emphasizing the extent to which engineering occurs in terms of profit-driven markets, addressing potential conflicts that arise as a result - Provides extensive guidance on how to carry out ethical analysis by using case studies, to practice addressing and thinking through issues before confronting them in the world

**Ethics in Engineering Practice and Research** Caroline Whitbeck,2011-08-15 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.

**Ethics and Professionalism in Engineering** Richard H. McCuen, Kristin L. Gilroy, 2011-03-22 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.

*Engineering Ethics for a Globalized World* Colleen Murphy, Paolo Gardoni, Hassan Bashir, Charles E. Harris, Jr., Eyad Masad, 2015-06-22 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 off-shoring 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.

Ethics, Politics, and Whistleblowing in Engineering Nicholas Sakellariou, Rania Milleron, 2018-11-09 The aim of this book is to generate a strong operational ethic in the work of engineers from all disciplines. It provides numerous examples of

engineers who sought to meet the highest ethical standards, risking both professional and personal retaliations. In short, it presents the fields of engineering ethics in the context of actual conflict situations on the job, and points to an urgent need for a strong ethical framework for the profession. This book is about engineering students and practitioners truly understanding, valuing, and championing their wider critical role. Ralph Nader, the consumer advocate and champion of engineers, wrote the preface. Presents various viewpoints which hail from a wide variety of disciplines in the engineering, science, and technology communities. Includes a mix of historical and contemporary examples, a list of relevant television series and documentaries for engineers, as well as links to informative websites for practicing engineers and engineering students. Examines engineering professionalism as related to the imperative of sustainable development. Provides numerous examples of corporate whistleblowing and ethical dilemmas in engineering. Includes a foreword written by consumer advocate Ralph Nader.

**Emerging Technologies and Ethical Issues in Engineering** National Academy of Engineering, 2004-09-02 Engineers and ethicists participated in a workshop to discuss the responsible development of new technologies. Presenters examined four areas of engineering-sustainability, nanotechnology, neurotechnology, and energy-in terms of the ethical issues they present to engineers in particular and society as a whole. Approaches to ethical issues include: analyzing the factual, conceptual, application, and moral aspects of an issue; evaluating the risks and responsibilities of a particular course of action; and using theories of ethics or codes of ethics developed by engineering societies as a basis for decision making. Ethics can be built into the education of engineering students and professionals, either as an aspect of courses already being taught or as a component of engineering projects to be examined along with research findings. Engineering practice workshops can also be effective, particularly when they include discussions with experienced engineers. This volume includes papers on all of these topics by experts in many fields. The consensus among workshop participants is that material on ethics should be an ongoing part of engineering education and engineering practice.

Engineering Ethics Steve Starrett, Amy L. Lara, Carlos Bertha, 2017 Starrett, Lara, and Bertha provide in-depth analysis of real world engineering ethics cases studies with extended discussions and study questions.

**The Future of Engineering** Albrecht Fritzsche, Sascha Julian Oks, 2018-07-02 In a world permeated by digital technology, engineering is involved in every aspect of human life. Engineers address a wider range of design problems than ever before, raising new questions and challenges regarding their work, as boundaries between engineering, management, politics, education and art disappear in the face of comprehensive socio-technical systems. It is therefore necessary to review our understanding of engineering practice, expertise and responsibility. This book advances the idea that the future of engineering will not be driven by a static view of a closed discipline, but rather will result from a continuous dialogue between different stakeholders involved in the design and application of technical artefacts. Based on papers presented at

the 2016 conference of the forum for Philosophy, Engineering and Technology (fPET) in Nuremberg, Germany, the book features contributions by philosophers, engineers and managers from academia and industry, who discuss current and upcoming issues in engineering from a wide variety of different perspectives. They cover topics such as problem solving strategies and value-sensitive design, experimentation and simulation, engineering knowledge and education, interdisciplinary collaboration, sustainability, risk and privacy. The different contributions in combination draw a comprehensive picture of efforts worldwide to come to terms with engineering, its foundations in philosophy, the ethical problems it causes, and its effect on the ongoing development of society.

*Engineering Ethics* Rosa Lynn B. Pinkus, 1997-05-13 Using the space shuttle programme as the framework, this book examines ethical decision making in engineering.

**Engineering Ethics** W. Richard Bowen, 2014-03-15 *Engineering Ethics: Challenges and Opportunities* aims to set a new agenda for the engineering profession by developing a key challenge: can the great technical innovation of engineering be matched by a corresponding innovation in the acceptance and expression of ethical responsibility? Central features of this stimulating text include: · An analysis of engineering as a technical and ethical practice providing great opportunities for promoting the wellbeing and agency of individuals and communities. · Elucidation of the ethical opportunities of engineering in three key areas: Engineering for Peace, emphasising practical amelioration of the root causes of conflict rather than military solutions. Engineering for Health, focusing on close collaboration with healthcare professionals for both the promotion and restoration of health. Engineering for Development, providing effective solutions for the reduction of extreme poverty. · Innovative strategies for implementing these ethical opportunities are described: Emphasis on the personal responsibility of every engineer and on the benefits of supporting social structures. Use of language and concepts that are appealing to business managers and political decision makers. · Future prospects for increasing the acceptance and expression of ethical responsibility by engineers are envisaged. · *Engineering Ethics: Challenges and Opportunities* provides engineers, decision makers and the wider public with new understanding of the potential of engineering for the promotion of human flourishing.

**Water Ethics** David Groenfeldt, 2013-10-01 This book introduces the idea that ethics are an intrinsic dimension of any water policy, program, or practice, and that understanding what ethics are being acted out in water policies is fundamental to an understanding of water resource management. Thus in controversies or conflicts over water resource allocation and use, an examination of ethics can help clarify the positions of conflicting parties as preparation for constructive negotiations. The author shows the benefits of exposing tacit values and motivations and subjecting these to explicit public scrutiny where the values themselves can be debated. The aim of such a process is to create the proverbial 'level playing field', where values favoring environmental sustainability are considered in relation to values favoring short-term exploitation for quick economic

stimulus (the current problem) or quick protection from water disasters (through infrastructure which science suggests is not sustainable). The book shows how new technologies, such as drip irrigation, or governance structures, such as river basin organizations are neither good nor bad in their own right, but can serve a range of interests which are guided by ethics. A new ethic of coexistence and synergies with nature is possible, but ultimately depends not on science, law, or finances but on the values we choose to adopt. The book includes a wide range of case studies from countries including Australia, India, Philippines, South Africa and USA. These cover various contexts including water for agriculture, urban, domestic and industrial use, the rights of indigenous people and river, watershed and ecosystem management.

**The Ethical Engineer** Robert McGinn, 2018-02-13 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 Ethics Deborah G. Johnson, 2020-05-19 An engaging, accessible survey of the ethical issues faced by engineers, designed for students The first engineering ethics textbook to use debates as the framework for presenting engineering ethics topics, this engaging, accessible survey explores the most difficult and controversial issues that engineers face in daily practice. Written by a leading scholar in the field of engineering and computer ethics, Deborah Johnson approaches engineering ethics with three premises: that engineering is both a technical and a social endeavor; that engineers don't just build things, they build society; and that engineering is an inherently ethical enterprise.

*What Every Engineer Should Know about Ethics* Kenneth K. Humphreys,1999-07-07 This compact reference succinctly explains the engineering profession's codes of ethics using case studies drawn from decisions of the National Society of Professional Engineers' (NSPE) Board of Ethical Review, examining ethical challenges in engineering, construction, and project management. It includes study questions to supplement general engineering survey courses and a list of references to aid practicing engineers in exploring topics in depth. Concentrating primarily on situations engineers encounter on a daily basis and offering pragmatic answers to ethical questions, *What Every Engineer Should Know About Ethics* discusses recent headline-making disasters such as the Challenger explosion, the Chernobyl nuclear catastrophe, and the Hyatt-Regency Hotel collapse; considers the merits and drawbacks of professional codes of ethics; covers the application of the committee approach to specific cases; compares and contrasts ethical codes and personal values with alternative approaches to morality; defines professional licensing and registration and enumerates their prerequisites; outlines legal standards for liability; emphasizes the importance of communication, coordination, and documentation; includes a discussion of whistleblowing; defines the engineer's primary ethical responsibility; and more.

**Ethics and Engineering** Behnam Taebi,2021-05-27 This book focuses on the ethical issues in engineering that have to do with assessment, design, sustainability and globalization.

*Ethical Issues in Engineering Design; Safety and Sustainability* Anke Christine van Gorp (innovation policy),2005

*Ethical Engineering for International Development and Environmental Sustainability* Marion Hersh,2016-10-05 Ensuring that their work has a positive influence on society is a responsibility and a privilege for engineers, but also a considerable challenge. This book addresses the ways in which engineers meet this challenge, working from the assumption that for a project to be truly ethical both the undertaking itself and its implementation must be ethically sound. The contributors discuss varied topics from an international and interdisciplinary perspective, including | robot ethics; | outer space; | international development; | internet privacy and security; | green branding; | arms conversion; | green employment; and | deliberate misinformation about climate change Important questions are answered, such as | what is meant by engineering ethics and its practical implications; | how decisions made by engineers in their working lives make an impact at the global as well as the local level; and | what ethics-related questions should be asked before making such decisions. *Ethical Engineering for International Development and Environmental Sustainability* will be a valuable resource for practising and student engineers as well as all who are interested in professional ethics, especially as it relates to engineering. Researchers and policy makers concerned with the effects of engineering decisions on environmental sustainability and international stability will find this book to be of special interest.

**Ethics in Engineering** Qin Zhu,Roland Schinzinger,2023 Technology has a pervasive and profound effect on the contemporary world, and engineers play a central role in all aspects of technological development. In order to hold

paramount the safety, health, and welfare of the public, engineers must be morally committed and equipped to grapple with ethical dilemmas they confront--

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