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**SIMPSON PHOEBE**

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## **ENGINEERING ETHICS**

Wadsworth Publishing Company

Whereas science, technology, and medicine have all called forth dedicated philosophical investigations, a fourth major contributor to the technoscientific world in which we all live - that is, engineering - has been accorded almost none of the philosophical attention it deserves. This volume thus offers a first characterisation of this important new field, by some of the primary philosophers and ethicists interested in engineering and leading engineers interested in philosophical reflections. The volume deals with such questions as: What is engineering? In what respect does engineering differ from science? What ethical problems does engineering raise? By what ethical principles are engineers guided? How do engineers themselves conceive of their profession? What do they see as the main philosophical challenges confronting them in the 21st century? The authors respond to these and other questions from philosophical and engineering view points and so illustrate how together they can meet the challenges and realize the opportunities present in the necessary encounters between philosophy and engineering - encounters that are ever more important in an increasingly

engineered world and its problematic futures.

## **VALUES AND ETHICS IN BUSINESS AND PROFESSION**

Springer Science & Business Media

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.

Introduction to Engineering Ethics Broadview Press

Indice: 1 Professionalism 2 Moral Reasoning and Ethical Theories  
3 Engineering as Social Experimentation 4 Commitment to Safety  
5 Workplace Responsibilities and Rights 6 Global Issues  
Appendix: Sample Codes.

**Engineering Ethics** Springer

This anthology focuses on ethical issues confronting individual engineers and the entire engineering profession.

**Ethics Education and Scientific and Engineering Research**

### National Academies Press

Around the turn of the millennium, a young woman with outstanding academic achievements in science and mathematics applied to study engineering at a European university. She had chosen to study engineering particularly because of the opportunities she expected it would give her to make a contribution to the well-being of others. It happened that the university engineering department to which she applied had just been involved in the design of a vehicle for a world speed record attempt. When the young woman visited the university for interview this “triumph of technology” was presented as being a quintessential example of good engineering. However, though it was clear to her that the vehicle was technically ingenious, she also recognised that it was of no practical use. She concluded that she had misunderstood the nature of engineering, and still wishing to help others she changed her plans and studied medicine, at which she assuredly excelled. This young woman’s change of career was undoubtedly a specific loss for engineering. Additionally, it had a broader, tragic dimension; for her understanding of the purpose of engineering was more mature than that of the academics she countered. Moreover, their imbalanced prioritisation of technical ingenuity over helping people is not uncommon within parts of the profession.

### *Ethics, Technology, and Engineering* JHU Press

A balanced, thought-provoking series of selected readings on professionalism and ethics in engineering. Addresses such topics as the concept of professionalism; education and maintenance of competence; registration; the role of professional and technical societies; professional autonomy; engineers' responsibilities for

the social effects of engineering practice; whistle-blowing; and the formulation and enforcement of codes of ethics. Includes case studies of the ethical dilemmas faced in engineering practice, compilations of major codes of engineering ethics, and references for further reading.

### *Philosophy and Engineering: An Emerging Agenda* Temple University 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.

### **Next-Generation Ethics** Cengage Learning

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.

### **Ethical Engineering for International Development and Environmental Sustainability** McGraw-Hill Medical Publishing

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

*The Ethical Engineer* Springer Nature

This text has been revised to coincide with the directive by ABET (the Accrediting Board for Engineering and Technology) to expand the ethics for engineering course. Other topics new to this edition include computer ethics, environmental ethics, corporate loyalty and collegiality.

*Hold Paramount: The Engineer's Responsibility to Society* John Wiley & Sons

Engineers love to build "things" and have an innate sense of wanting to help society. However, these desires are often not connected or developed through reflections on the complexities of philosophy, biology, economics, politics, environment, and culture. To guide future efforts and to best bring about human flourishing and a just world, *Engineering and Philosophy: Reimagining Technology and Progress* brings together practitioners and scholars to inspire deeper conversations on the nature and varieties of engineering. The perspectives in this book are an act of reimagination: how does engineering serve society, and in a vital sense, how should it.

*Ethics in Engineering Practice and Research* Springer Science & Business Media

Learn the principles and practices of ethics as applied to civil and structural engineering This comprehensive textbook covers engineering ethics specifically through the lens of civil and structural engineering. *Ethics in Civil and Structural Engineering: Professional Responsibility & Standard of Care* uses known

standards of professional care, ethical codes of conduct, published court opinions, and case studies specifically from the civil and structural engineering disciplines to connect core concepts to real-world professional practices. The book draws on examples of structural design, engineering of land and infrastructure development, and surveying to highlight ethical lessons, define professional competence, illustrate the expected standard of care, and summarize the future of best practices. Readers will get strategies that they can use to construct a morally based professional foundation and take an ethical approach to issues such as environmental sustainability, resilient design and construction, professional responsibility, design and decision justification, business and interpersonal relationships, and dispute resolution. Covers numerous ethical codes of conduct published in the United States and internationally Features court-based opinions and case studies that illustrate key concepts Includes review and discussion questions suitable for self-study or a college-level course Written by a practicing engineer and experienced author

*Responsible Innovation* Cambridge University Press

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

Engineering Professionalism and Ethics American Society of Civil Engineers

Now you can design a learning package that fits your introductory engineering course perfectly--with The Engineer's Toolkit: A First Course in Engineering. The Engineer's Toolkit is Prentice Hall's innovative publishing program for introductory engineering. Consisting of modules that cover engineering skills and concepts, programming languages and software tools, The Engineer's Toolkit is a flexible solution for keeping up with the evolving curriculum of first-year engineering.

Engineering Ethics John Wiley & Sons

Science and innovation have the power to transform our lives and the world we live in - for better or worse - in ways that often transcend borders and generations: from the innovation of complex financial products that played such an important role in the recent financial crisis to current proposals to

intentionally engineer our Earth's climate. The promise of science and innovation brings with it ethical dilemmas and impacts which are often uncertain and unpredictable: it is often only once these have emerged that we feel able to control them. How do we undertake science and innovation responsibly under such conditions, towards not only socially acceptable, but socially desirable goals and in a way that is democratic, equitable and sustainable? Responsible innovation challenges us all to think about our responsibilities for the future, as scientists, innovators and citizens, and to act upon these. This book begins with a description of the current landscape of innovation and in subsequent chapters offers perspectives on the emerging concept of responsible innovation and its historical foundations, including key elements of a responsible innovation approach and examples of practical implementation. Written in a constructive and accessible way, *Responsible Innovation* includes chapters on: Innovation and its management in the 21st century A vision and framework for responsible innovation Concepts of future-oriented responsibility as an underpinning philosophy Values - sensitive design Key themes of anticipation, reflection, deliberation and responsiveness Multi - level governance and regulation Perspectives on responsible innovation in finance, ICT, geoengineering and nanotechnology Essentially multidisciplinary in nature, this landmark text combines research from the fields of science and technology studies, philosophy, innovation governance, business studies and beyond to address the question, "How do we ensure the responsible emergence of science and innovation in society?"

**Engineering, Business and Professional Ethics** Springer

Engineering begins with a design problem: how to make occupants of vehicles safer, settle on an inter-face for an x-ray machine or create more legible road signs. In choosing any particular solution, engineers must make value choices. By focusing on the solving of these problems, *Ethics Within Engineering* shows how ethics is at the intellectual core of engineering. Built around a number of engaging case studies, Wade Robison presents real examples of engineering problems that everyone, engineer or not, will recognize, ranging from such simple artifacts as toasters and the layout of burners and knobs on a stove top to the software responsible for the Columbia airliner crash. The most dramatic examples center on error-provocative designs: designs that provoke mistakes for even the most intelligent, well-informed, and highly motivated. These examples all raise ethical issues, posing questions for the reader, forcing the give-and-take of discussion in classrooms and the consideration of alternative solutions that solve the original design problem without the unfortunate features of the original solution. This original, focused approach provides an ideal entry point for anyone looking to better understand professional ethical responsibilities within engineering.

**Engineering Ethics** Professional Ethics and Human Values 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 I robot ethics; I outer space; I international development; I internet privacy and security; I green branding; I arms conversion; I green employment; and I deliberate misinformation about climate change Important questions are answered, such as I what is meant by engineering ethics and its practical implications; I how decisions made by engineers in their working lives make an impact at the global as well as the local level; and I 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 CIVIL AND STRUCTURAL ENGINEERING: PROFESSIONAL RESPONSIBILITY AND STANDARD OF CARE**

Routledge

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.

Engineering Ethics John Wiley & Sons

Engineering Ethics is the application of philosophical and moral systems to the proper judgment and behavior by engineers in conducting their work, including the products and systems they design and the consulting services they provide. In light of the work environment that inspired the new Sarbanes/Oxley federal legislation on "whistle-blowing protections, a clear understanding of Engineering Ethics is needed like never before. Beginning with a concise overview of various approaches to engineering ethics, the real heart of the book will be some 13 detailed case studies, delving into the history behind each one, the official outcome and the "real story behind what happened. Using a consistent format and organization for each one—giving background, historical summary, news media effects, outcome and interpretation--these case histories will be used to clearly illustrate the ethics issues at play and what should or should not have been done by the engineers, scientists and managers involved in each instance. Covers importance and practical benefits of systematic ethical behavior in any engineering work environment Only book to explain implications of the Sarbanes/Oxley "Whistle-Blowing" federal legislation 13 actual case histories, plus 10 additional "anonymous" case histories-in consistent format-will clearly demonstrate the relevance of ethics in the outcomes of each one Offers actual investigative reports, with evidentiary material, legal proceedings, outcome and follow-up analysis Appendix

offers copies of the National Society of Professional Engineers Code of Ethics for Engineers and the Institute of Electrical and Electronic Engineers Code of Ethics

### **PROFESSIONAL ETHICS FOR KTU**

Butterworth-Heinemann

The aftermath of September 11, 2001, brought the subject of engineering-failure forensics to public attention as had no previous catastrophe. In keeping with the engineering profession's long tradition of building a positive future out of disasters, *Lessons amid the Rubble* uses the collapse of the World Trade Center towers to explore the nature and future of engineering education in the United States. Sarah K. A. Pfatteicher draws on historical and current practice in engineering design, construction, and curricula to discuss how engineers should conceive, organize, and execute a search for

the reasons behind the failure of man-made structures. Her survey traces the analytical journey engineers take after a disaster and discusses the technical, social, and moral implications of their work. After providing an overview of the investigations into the collapse of the Twin Towers, Pfatteicher explores six related events to reveal deceptively simple lessons about the engineering enterprise, each of which embodies an ethical dilemma at the heart of the profession. In tying these themes together, Pfatteicher highlights issues of professionalism and professional identity infused in engineering education and encourages an explicit, direct conversation about their meaning. Sophisticated and engagingly written, this volume combines history, engineering, ethics, and philosophy to provoke a deep discussion about the symbolic meaning of buildings and other structures and the nature of engineering.

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