Practical Guidance on Science and Engineering Ethics Education for Instructors and Administrators

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Over the last two decades, colleges and universities in the United States have significantly increased the formal ethics instruction they provide in science and engineering. Today, science and engineering programs socialize students into the values of scientists and engineers as well as their obligations in the conduct of scientific research and in the practice of engineering. Practical Guidance on Science and Engineering Ethics Education for Instructors and Administrators is the summary of a workshop convened in December 2012 to consider best practices for ethics education programs in science and engineering. The workshop focused on four key areas: goals and objectives for ethics instruction, instructional assessment, institutional and research cultures, and development of guidance checklists for instructors and administrators. Leading experts summarized and presented papers on current research knowledge in these areas. This report presents the edited papers and a summary of the discussions at the workshop.

Engineering and Environmental Ethics

Engineering Ethics is ideal for use in undergraduate engineering programs incorporating ethics topics. Engineering Ethics serves as both a textbook and a resource for the study of engineering ethics. It is written to help future engineers be prepared for confronting and resolving ethical dilemmas that they might encounter during their professional careers.
Teaching and Learning in a Digital World

The Research Handbook on Islamic Law and Society provides an examination of the role of Islamic law as it applies in Muslim and non-Muslim societies through legislation, fatwa, court cases, sermons, media, or scholarly debate. It illuminates the intersection of social, political, economic and cultural factors that inform Islamic Law across a number of jurisdictions. Chapters evaluate when and how actors and institutions have turned to Islamic law to address problems faced by societies in Muslim and, in some cases, Western states.

Engineering Ethics

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.

Evaluation Ethics for Best Practice
A guide to understanding and resolving the knotty ethical issues confronting today's engineering professional. Little in an engineer's formal training offers adequate preparation for navigating the murky waters of professional ethics. Engineering and Environmental Ethics fills this critical gap, providing you with a reliable compass to help steer a safe course through the welter of governing laws and regulations, while balancing personal and professional obligations with the more global concerns of the environment and society. This book offers the opportunity to learn directly from your colleagues' experiences through more than 100 absorbing case studies that typify common ethical problems encountered by engineers. Taking a neutral viewpoint for each case, the authors supply helpful commentaries in which they address underlying philosophical issues, weigh the various pros and cons of possible responses, and offer expert opinions on how the problem could have been resolved better or differently. The cases are organized both by engineering specialty (chemical, civil, electrical, and mechanical) and by environmental concerns (air, water, solid waste, domestic, and safety and accident management). Engineering and Environmental Ethics is a valuable professional resource for practitioners in all engineering specialties, as well as corporate policymakers and environmental managers. It can also serve as an excellent primary or secondary text for engineering students enrolled in professional ethics courses.

**Ethical Issues in Engineering**

Twenty-first century engineering education must meet
radically revised national accreditation standards, known colloquially as EC2000. This book shows paths forward for all faculty involved in the «liberal education» of engineering undergraduates. Beginning with an exhortation for liberal education, it includes the EC2000 criteria and its historical origin, as well as example institutional and individual responses to these criteria - which include topics in communication, ethics and professional responsibility, contemporary issues, art and aesthetics, and the integration of engineering and the humanities. The variety of curricular responses presented indicate that this is a formative - perhaps even revolutionary - period in engineering education.

**Engineering Ethics: Concepts and Cases**

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.

**Emerging Technologies and Ethical Issues in Engineering**

This volume is a collection of articles published since engineering ethics developed a distinct scholarly field in the late 1970s that will help define the field of engineering ethics. Among the perennial questions addressed are: What is engineering (and what is engineering ethics)? What professional responsibilities do engineers have and why? What professional autonomy can engineers have in large organizations? What is the relationship between ethics and codes of ethics and how should engineering ethics be taught?

**Liberal Education in Twenty-first Century Engineering**

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://gocengage.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 for a Globalized World**

This report contains 27 papers that serve as a testament to the state-of-the-art of civil engineering at the outset of the 21st century, as well as to commemorate the ASCE's Sesquicentennial. Written by the leading practitioners, educators, and researchers of civil engineering, each of these peer-reviewed papers explores a particular aspect of civil engineering knowledge and practice. Each paper explores the development of a particular civil engineering specialty, including milestones and future barriers, constraints, and opportunities. The papers celebrate the history, heritage, and accomplishments of the profession in all facets of practice, including construction facilities, special structures, engineering mechanics, surveying and mapping, irrigation and water quality, forensics, computing, materials, geotechnical engineering, hydraulic engineering, and transportation engineering. While each paper is unique, collectively they provide a snapshot of the profession while offering thoughtful
predictions of likely developments in the years to come. Together the papers illuminate the mounting complexity facing civil engineering stemming from rapid growth in scientific knowledge, technological development, and human populations, especially in the last 50 years. An overarching theme is the need for systems-level approaches and consideration from undergraduate education through advanced engineering materials, processes, technologies, and design methods and tools. These papers speak to the need for civil engineers of all specialties to recognize and embrace the growing interconnectedness of the global infrastructure, economy, society, and the need to work for more sustainable, life-cycle-oriented solutions. While embracing the past and the present, the papers collected here clearly have an eye on the future needs of ASCE and the civil engineering profession.

Beyond Failure

The Cambridge Handbook of Engineering Education Research is the critical reference source for the growing field of engineering education research, featuring the work of world luminaries writing to define and inform this emerging field. The Handbook draws extensively on contemporary research in the learning sciences, examining how technology affects learners and learning environments, and the role of social context in learning. Since a landmark issue of the Journal of Engineering Education (2005), in which senior scholars argued for a stronger theoretical and empirically driven agenda, engineering education has quickly emerged as a research-driven field increasing in both theoretical and
empirical work drawing on many social science disciplines, disciplinary engineering knowledge, and computing. The Handbook is based on the research agenda from a series of interdisciplinary colloquia funded by the US National Science Foundation and published in the Journal of Engineering Education in October 2006.

**Ethics Within Engineering**

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.

**Everyday Ethics**

This book expands the current discussion on ethics, addressing the gap between "headline" ethics cases, which are often extreme and taken from a business context, and the everyday ethical challenges that we all face in school, work, relationships, and communities.
Case studies throughout demonstrate concepts and provide opportunities for readers to apply theory as they consider everyday issues such as the temptation to lie about an arrest on a job application, peer pressure to steal or drink, and the implications of "ratting out" a classmate who is cheating or a co-worker who is stealing. By including a broad array of ethical challenges, this book makes ethics more accessible to the reader. Drawing from several academic disciplines, including social psychology and organizational behavior, this book explores the personal and environmental factors that influence our ethical decision-making. The book is appropriate for ethics courses in an array of disciplines as well as anyone interested in ethical challenges.

**Engineering Ethics**

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

**Next-Generation Ethics**

Packed with examples pulled straight from recent headlines, ENGINEERING ETHICS, Sixth Edition, helps engineers understand the importance of their conduct as professionals as well as reflect on how their actions can affect the health, safety and welfare of the public and the environment. Numerous case studies give readers plenty of hands-on experience grappling with modern-day ethical dilemmas, while the book's proven and structured method for analysis walks readers step by step through ethical problem-solving techniques. It also offers practical application of the Engineering Code of Ethics and thorough coverage of critical moral reasoning, effective organizational communication, sustainability and economic development, risk management, ethical responsibilities, globalized standards for engineering and emerging challenges relating to evolving technology. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.
Engineering Ethics

This book gathers the Proceedings of the 20th International Conference on Interactive Collaborative Learning (ICL2017), held in Budapest, Hungary on 27–29 September 2017. The authors are currently witnessing a significant transformation in the development of education. The impact of globalisation on all areas of human life, the exponential acceleration of technological developments and global markets, and the need for flexibility and agility are essential and challenging elements of this process that have to be tackled in general, but especially in engineering education. To face these current real-world challenges, higher education has to find innovative ways to quickly respond to them. Since its inception in 1998, this conference has been devoted to new approaches in learning with a focus on collaborative learning. Today the ICL conferences offer a forum for exchange concerning relevant trends and research results, and for sharing practical experience gained while developing and testing elements of new technologies and pedagogies in the learning context.

Engineering and Society

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.

**Infusing Ethics into the Development of Engineers**

Understanding and appreciating the ethical dilemmas
associated with business is an important dimension of marketing strategy. Increasingly, matters of corporate social responsibility are part of marketing's domain. Ethics in Marketing contains 20 cases that deal with a variety of ethical issues such as questionable selling practices, exploitative advertising, counterfeiting, product safety, apparent bribery and channel conflict that companies face across the world. A hallmark of this book is its international dimension along with high-profile case studies that represent situations in European, North American, Chinese, Indian and South American companies. Well known multinationals like Coca Cola, Facebook, VISA and Zara are featured. This second edition of Ethics in Marketing has been thoroughly updated and includes new international cases from globally recognized organizations on gift giving, sustainability, retail practices, multiculturalism, sweat shop labor and sports sponsorship. This unique case-book provides students with a global perspective on ethics in marketing and can be used in a free standing course on marketing ethics or marketing and society or it can be used as a supplement for other marketing classes.

**Introduction to Engineering Library**

Starrett, Lara, and Bertha provide in-depth analysis of real world engineering ethics cases studies with extended discussions and study questions.

**Ethics in Marketing**

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

**Internet Resources for Engineers**

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
Online Library Engineering Ethics Case Studies

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

Research Handbook on Islamic Law and Society

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

Ethics in Engineering Practice and Research

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

Perspectives in Civil Engineering
Engineering, as a profession and business, is at the sharp end of the ethical practice. Far from being a bolt on extra to the 'real work' of the engineer it is at the heart of how he or she relates to the many different stakeholders in the engineering project. Engineering, Business and Professional Ethics highlights the ethical dimension of engineering and shows how values and responsibility relate to everyday practice. Looking at the underlying value systems that inform practical thinking the book offers a framework for ethical decision-making. Covering global corporate responsibility to the increasing concern for the environment within the engineering business, the book offers ways in which value conflict can be handled. Integrating practice, value and diversity the book helps to prepare the engineer for the ethical challenges of the 21st century. This book is essential reading for all students on courses accredited by the Engineering Council e.g. Civil, Chemical, Mechanical and Environmental Engineering who need to be aware of ethics. Also of interest to practicing engineers and professionals such as Sustainability Managers and Community Workers involved in engineering projects. The authors have worked together in the area of engineering, professional and business ethics for many years and are all members of the National Centre for Applied Ethics at the University of Leeds. * Integrates ethical considerations into everyday decision-making * Shows how to review and overcome professional ethical problems * Practical case studies and examples throughout

**Engineering Ethics**
Engineers work in an increasingly complex entanglement of ideas, people, cultures, technology, systems and environments. Today, decisions made by engineers often have serious implications for not only their clients but for society as a whole and the natural world. Such decisions may potentially influence cultures, ways of living, as well as alter ecosystems which are in delicate balance. In order to make appropriate decisions and to co-create ideas and innovations within and among the complex networks of communities which currently exist and are be shaped by our decisions, we need to regain ou.

**What Every Engineer Should Know about Ethics**

A broad, yet concise, introduction to the field of engineering for undergraduate students. Designed for the beginning student, this text covers the history of engineering, career paths for engineers, issues of professional responsibility and ethics, and critical engineering skills like problem solving and communication. Includes two case studies, one of which deals with the circumstances and events leading to the space shuttle Challenger accident. A brief, paperback text, this title can be used in conjunction with other texts to provide a solid foundation for the introductory engineering course.

**Engineering, Ethics, and the Environment**

Media Ethics: Cases and Moral Reasoning, Ninth Edition challenges students to think analytically about ethical situations in mass communication by using original case studies and commentaries about real-life media
experiences. This market-leading text facilitates and enhances students' ethical awareness by providing a comprehensive introduction to the theoretical principles of ethical philosophies. Media Ethics introduces the Potter Box (which uses four dimensions of moral analysis: definitions, values, principles and loyalties) to provide a framework for exploring the important steps in moral reasoning and analyzing the cases that follow. Focusing on a wide spectrum of ethical issues facing media practitioners, the cases in this new Ninth Edition include the most recent issues in journalism, broadcasting, advertising, public relations and entertainment.

**Ethics for Engineers**

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.

**Case Studies in Environmental Ethics**

Using the space shuttle programme as the framework, this book examines ethical decision making in engineering.

**Ethics, Technology, and Engineering**

The nearly two dozen case studies in this timely book will help future and current coaches of school sports develop successful strategies to avoid or overcome challenges and become more aware of the need to remain professional and consider the implications of their actions. Based on real-life situations, it considers ethical and practical dilemmas from sports in locations across the country. These compelling case studies illustrate everyday scenarios-such as teaching style conflicts, scheduling issues, cheating, confidentiality decisions, and working with over-involved parents-that occur in school coaching and athletics. The cases and thought-provoking discussion questions that follow allow readers to work through the types of dilemmas they will face in their coaching careers and then carefully formulate their responses and decisions. A resource list for each case allows readers to further explore the issues and develop
their personal responses to each situation. An accompanying instructor's manual, available upon adoption, includes possible responses to all discussion questions.

**Engineering Ethics**

Focusing on ethical challenges in program evaluation, this innovative book features six case-study scenarios that end at a point where the evaluator faces a significant decision about how to proceed. For each case, two distinguished evaluators offer insights on the best course of action to choose, and why. "What If?" boxes modify the details of the scenarios, inviting readers to reflect on whether these changes alter the ethical implications of the case. Six additional cases are presented with questions that guide readers to develop their own ethical analyses. The book is organized to follow the progress of an evaluation, from the entry/contracting phase through the utilization of results.

**Global Engineering Ethics**

This book is a key introduction to ethics in engineering, providing professionals at all stages of their career with guidance on navigating the increasingly complex world of practising engineering ethically on an international scale. Engineering professionals face a duty to uphold reliable and trustworthy behaviour when working across all disciplines and industries. Accuracy and rigour are essential parts of the modern workplace, and are increasingly of concern to practising engineers. Using case studies to highlight examples of issues within the
workplace and how these can be appropriately handled, this book is an accessible tool through which engineers can gain confidence in dealing with ethical dilemmas in the workplace. Touching upon safety, risk, artificial intelligence, autonomous systems, and intellectual property, alongside sustainability and environmental matters, the book focuses on hot topics which are fast becoming day-to-day issues dealt with by engineers. The book will be suitable for engineers of all disciplines, alongside students looking to become professional chartered engineers.

**Engineering Ethics**

Internet Resources for Engineers will be supported by a website to provide easily accessible and up-to-date information that becomes available after publication. Internet Resources for Engineers is the first in a series of Internet Resources books for specific areas of study. Among the other books planned are Internet Resources for: Business Studies Media Studies and Journalism Architecture Medicine. Comprehensive coverage 2. Ideal for students and teachers 3. Specifically targeted to engineering and technology

**Engineering Ethics: Concepts and Cases**

**Case Studies in Coaching**

This text, first published in 1998, examines the ethical responsibilities of engineers for the environment - of interest to all engineers.
**The Ethical Engineer**

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.

**Engineering, Business and Professional Ethics**

Leaders from academia and industry offer guidance for professionals and general readers on ethical questions posed by modern technology.

**Media Ethics**

Case Studies in Environmental Ethics is a collection of more than 40 case studies covering diverse topics such as: genetic engineering, aesthetics, pollution, animal rights, population, and resource management. It is intended as a supplemental book for college courses primarily in Environmental Ethics. Each case presents factual information on a particular topic, followed by a discussion of the ethical implications of each topic and several insightful discussion questions. The cases are concise yet rich in detail and controversy to provide
significant classroom discussion. These cases focus on philosophical and policy decisions that students are likely to encounter in their everyday lives. In addition, the book provides numerous sources and an Internet resources section to allow students to research the issues found in the cases.

**Cambridge Handbook of Engineering Education Research**

Norbert Delatte presents the circumstances of important failures that have had far-reaching impacts on civil engineering practice, organized around topics in the engineering curriculum.

**Engineering Ethics in Practice**

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.

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