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some years ago when i was chair of the department of civil and environmental engineering a colleague introduced me to a visitor from sandia laboratories perhaps the largest developer of armaments and weapons systems in the world we had a nice visit and as we chatted the talk naturally centered on the visitor s engineering work it turned out that his job in recent years had been to develop a new acoustic triggering device for bombs as he explained it the problem with bombs was that the plunger triggering mechanism could fail if the bomb hit at an angle and thus the explosives would not detonate to get around this he dev oped an acoustic trigger that would detonate the explosives as soon as the bomb hit any solid surface even at an angle as he talked i watched his face his enthusiasm for his work was clearly e dent and his animated explanations of what they had developed at sandia exuded pride and excitement i thought about asking him what it felt like to have spent his engineering career designing better ways to kill people or to destroy property the sole purpose of a bomb i wondered how many people had been killed because this man had dev oped a clever acoustic triggering device but good sense and decorum prevailed and i did not ask him such questions we parted as friends and in good spirits

this text has two unifying themes materials balances and environmental ethics the authors demonstrate that environmental problems need to be solved using a holistic approach and incorporate ethical decision making into the discussions and problems

environmental engineering second edition is an introductory book on environmental engineering which includes materials important to environmental engineers water resources air quality solid and hazardous wastes including radioactive waste noise and social and ethical considerations the text begins with a short introduction on the roots of environmental engineering and presents the concept of risk and safety the following chapters are devoted to discussions on such topics as sources of water pollution measurement of water quality wastewater treatment quantities and characteristics of municipal solid waste and solid and hazardous waste law the types of air pollutants air pollution control and noise measurement and control are dealt with in detail as well the last chapter covers the topic on environmental ethics this book will be of use to junior or senior level engineering students

solid waste engineering addresses the growing and increasingly intricate problem of controlling and processing the refuse created by our urban society while the authors discuss issues such as regulations and legislation their main emphasis is on solid waste engineering principles they maintain their focus on principles by first explaining the basic principles of the field then demonstrating how these principles are applied in real world settings through worked examples by using this book as part of a graduate or advanced undergraduate course students will emerge being able to think reflectively and logically about the problems and solutions in solid waste engineering important notice media content referenced within the product description or the product text may not be available in the ebook version

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while in many university courses attention is given to the human side as opposed to the technical side of engineering it is by and large an afterthought engineering is however a technical social and personal activity several studies show that engineering is a community activity of professionals in which communication is central to the engineering task increasingly technology impacts everyone in society acting as a professional community engineers have an awesome power to influence society but they can only act for the common good if they understand the nature of our society to achieve such understanding they have to understand themselves this book is about understanding ourselves in order to understand others and understanding others in order to understand ourselves in the context of engineering and the society it serves to achieve this understanding this book takes the reader on 12 intellectual journeys that frame the big questions confronting the engineering professions

solid waste engineering is one of a handful of engineering textbooks to address the growing and increasingly intricate problem of controlling and processing the refuse created by our urban society while the authors discuss issues such as regulations and legislation their main emphasis

is on solid waste engineering principles they maintain their focus on principles by first explaining the basic principles of the field then demonstrating how these principles are applied in real world settings through worked examples

this book investigates the close connections between engineering and war broadly understood and the conceptual and structural barriers that face those who would seek to loosen those connections it shows how military institutions and interests have long influenced engineering education research and practice and how they continue to shape the field in the present the book also provides a generalized framework for responding to these influences useful to students and scholars of engineering as well as reflective practitioners the analysis draws on philosophy history critical theory and technology studies to understand the connections between engineering and war and how they shape our very understandings of what engineering is and what it might be after providing a review of diverse dimensions of engineering itself the analysis shifts to different dimensions of the connections between engineering and war first it considers the ethics of war generally and then explores questions of integrity for engineering practitioners facing career decisions relating to war next it considers the historical rise of the military industrial academic complex especially from world war ii to the present finally it considers a range of responses to the militarization of engineering from those who seek to unsettle the status quo only by confronting the ethical historical and political consequences of engineering for warfare this book argues can engineering be sensibly reimagined

civil and environmental engineers work together to develop build and maintain the man made and natural environments that make up the infrastructures and ecosystems in which we live and thrive civil and environmental engineering concepts methodologies tools and applications is a comprehensive multi volume publication showcasing the best research on topics pertaining to road design building maintenance and construction transportation earthquake engineering waste and pollution management and water resources management and engineering through its broad and extensive coverage on a variety of crucial concepts in the field of civil engineering and its subfield of environmental engineering this multi volume work is an essential addition to the library collections of academic and government institutions and appropriately meets the research needs of engineers environmental specialists researchers and graduate level students

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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

this book is for engineers of different disciplines such as chemical electrical petroleum mechanical and civil engineering and will appeal both to the experienced professional engineer and to undergraduate or postgraduate engineering students this singular volume presents selected articles on themes that arise at the interface between engineering and the different societies in which it is practised themes of current interest include ethics gender balance education workplace preparation communication competencies and the future of engineering original and thought provoking articles on these themes are presented by authors who have achieved international recognition for their work in engineering research practice and education and who work in different capacities in industry or higher education around the world recognizing the pluralism that is characteristic of such themes each chapter presents two articles reflecting distinct perspectives and contexts this volume therefore provides ideal opportunities for readers who wish to develop their critical thinking capacities by contrasting and evaluating the different viewpoints it also provides readers with writing that complements the technical discourse predominant in engineering workplaces and institutes this book therefore while promoting professional literacy and thinking skills development concurrently serves to cultivate the well rounded and forward looking engineers required by the international community to meet the multifaceted challenges of 21st century engineering

this text first published in 1998 examines the ethical responsibilities of engineers for the environment of interest to all engineers

this text presents a balanced treatment of environmental engineering by combining engineering concepts with the importance of

environmental ethics this third edition highlights sustainable development and emphasizes the need for engineers to become even more environmentally responsible during this time of increasing awareness of environmental concerns the authors challenge students with problems that require not only a technical solution but a thorough consideration of its ethical ramifications the text also provides comprehensive exposure to all types of environmental problems including ecosystem dynamics wastewater treatment and air pollution control important notice media content referenced within the product description or the product text may not be available in the ebook version

this essential text provides students with practical insight into the engineering code of ethics and how a practicing engineer is obligated to act in a responsible manner to illustrate the complexities involved with acting in an ethical fashion the authors have created characters that encounter a number of situations that test the engineering code of ethics the dialogue between these characters highlights different perspectives of realistic situations that students will face as practicing engineers as they proceed through the book students see how the code can help in decision making as well as the implications of various decisions the philosophical theory that supports the ethical positions encountered is presented as boxed material following each section important notice media content referenced within the product description or the product text may not be available in the ebook version

readers gain the knowledge to address the growing and increasingly intricate problem of controlling and processing the refuse created by global urban societies with solid waste engineering a global perspective 3e while the authors prepare readers to deal with issues such as regulations and legislation the main emphasis throughout the book is on mastering solid waste engineering principles the book first explains the basic principles of the field and then demonstrates through worked examples how readers can apply these principles in real world settings readers learn to think reflectively and logically about the problems and solutions in today s solid waste engineering important notice media content referenced within the product description or the product text may not be available in the ebook version

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