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# Engineering and Social Justice

Donna Riley

*SYNTHESIS LECTURES ON  
ENGINEERS, TECHNOLOGY, AND SOCIETY*

Caroline Baillie, *Series Editor*

# Engineering And Social Justice Synthesis Lectures On Engineers Technology And Society

**AW Rasmussen**



## **Engineering And Social Justice Synthesis Lectures On Engineers Technology And Society:**

**Engineering and Social Justice** Donna M. Riley, 2008 The profession of engineering in the United States has historically served the status quo feeding an ever expanding materialistic and militaristic culture remaining relatively unresponsive to public concerns and without significant pressure for change from within This book calls upon engineers to cultivate a passion for social justice and peace and to develop the skill and knowledge set needed to take practical action for change within the profession Because many engineers do not receive education and training that support the kinds of critical thinking reflective decision making and effective action necessary to achieve social change engineers concerned with social justice can feel powerless and isolated as they remain complicit Utilizing techniques from radical pedagogies of liberation and other movements for social justice this book presents a roadmap for engineers to become empowered and engage one another in a process of learning and action for social justice and peace

**Engineering and Social Justice** Donna Riley, 2008-06-04 The profession of engineering in the United States has historically served the status quo feeding an ever expanding materialistic and militaristic culture remaining relatively unresponsive to public concerns and without significant pressure for change from within This book calls upon engineers to cultivate a passion for social justice and peace and to develop the skill and knowledge set needed to take practical action for change within the profession Because many engineers do not receive education and training that support the kinds of critical thinking reflective decision making and effective action necessary to achieve social change engineers concerned with social justice can feel powerless and isolated as they remain complicit Utilizing techniques from radical pedagogies of liberation and other movements for social justice this book presents a roadmap for engineers to become empowered and engage one another in a process of learning and action for social justice and peace Table of contents What Do we Mean by Social Justice Mindsets in Engineering Engineering and Social Injustice Toward a More Socially Just Engineering Turning Knowledge into Action Strategies for Change Parting Lessons for the Continuing Struggle

**Engineering and Society** Caroline Baillie, George Catalano, 2009-10-08 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 shaped by our decisions we need to regain our place as professionals to realise the significance of our work and to take responsibility in a much deeper sense Engineers must develop the ability to respond to emerging needs of all people across all cultures To do this requires insights and knowledge which are at present largely within the domain of the social and political sciences but which need to be shared with our students in ways which are meaningful and relevant to engineering This book attempts to do just that In Part 1 Baillie

introduces ideas associated with the ways in which engineers relate to the communities in which they work Drawing on scholarship from science and technology studies globalisation and development studies as well as work in science communication and dialogue this introductory text sets the scene for an engineering community which engages with the public In Part 2 Catalano frames the thinking processes necessary to create ethical and just decisions in engineering to understand the implications of our current decision making processes and think about ways in which we might adapt these to become more socially just in the future In Part 3 Baillie and Catalano have provided case studies of everyday issues such as water garbage and alarm clocks to help us consider how we might see through the lenses of our new knowledge from Parts 1 and 2 and apply this to our everyday existence as engineers Table of Contents Introduction Throwing Away Rubbish Turning on the Tap Awakened by an Alarm Clock Driving the SUV Travelling to Waikiki Beach

### **Engineering and Society:**

**Working Towards Social Justice, Part III** Caroline Baillie, George Catalano, 2022-05-31 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 shaped by our decisions we need to regain our place as professionals to realise the significance of our work and to take responsibility in a much deeper sense Engineers must develop the ability to respond to emerging needs of all people across all cultures To do this requires insights and knowledge which are at present largely within the domain of the social and political sciences but which need to be shared with our students in ways which are meaningful and relevant to engineering This book attempts to do just that In Part 1 Baillie introduces ideas associated with the ways in which engineers relate to the communities in which they work Drawing on scholarship from science and technology studies globalisation and development studies as well as work in science communication and dialogue this introductory text sets the scene for an engineering community which engages with the public In Part 2 Catalano frames the thinking processes necessary to create ethical and just decisions in engineering to understand the implications of our current decision making processes and think about ways in which we might adapt these to become more socially just in the future In Part 3 Baillie and Catalano have provided case studies of everyday issues such as water garbage and alarm clocks to help us consider how we might see through the lenses of our new knowledge from Parts 1 and 2 and apply this to our everyday existence as engineers Table of Contents Introduction Throwing Away Rubbish Turning on the Tap Awakened by an Alarm Clock Driving the SUV Travelling to Waikiki Beach

**Engineering Education for Social Justice** Juan Lucena, 2013-05-24 Hoping to help transform engineering into a more socially just field of practice this book offers various perspectives and strategies while highlighting key concepts and themes that help readers understand the complex relationship between engineering education and social

justice This volume tackles topics and scopes ranging from the role of Buddhism in socially just engineering to the blinding effects of ideologies in engineering to case studies on the implications of engineered systems for social justice This book aims to serve as a framework for interventions or strategies to make social justice more visible in engineering education and enhance scholarship in the emerging field of Engineering and Social Justice ESJ This creates a toolbox for engineering educators and students to make social justice a central theme in engineering education

**Engineering and Society: Working Towards Social Justice, Part II** Caroline Baillie, George Catalano, 2022-06-01 Part II Engineering Decisions in the 21st Century 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 shaped by our decisions we need to regain our place as professionals to realise the significance of our work and to take responsibility in a much deeper sense Engineers must develop the ability to respond to emerging needs of all people across all cultures To do this requires insights and knowledge which are at present largely within the domain of the social and political sciences but which need to be shared with our students in ways which are meaningful and relevant to engineering This book attempts to do just that In Part 1 Baillie introduces ideas associated with the ways in which engineers relate to the communities in which they work Drawing on scholarship from science and technology studies globalisation and development studies as well as work in science communication and dialogue this introductory text sets the scene for an engineering community which engages with the public In Part 2 Catalano frames the thinking processes necessary to create ethical and just decisions in engineering to understand the implications of our current decision making processes and think about ways in which we might adapt these to become more socially just in the future In Part 3 Baillie and Catalano have provided case studies of everyday issues such as water garbage and alarm clocks to help us consider how we might see through the lenses of our new knowledge from Parts 1 and 2 and apply this to our everyday existence as engineers Table of Contents Making Decisions in the 21st Century Ethics Landmines and the War in Iraq Hurricane Katrina and the Flooding of New Orleans Disappearing Bumble Bees Engineering and Traditional Approaches Engineering and Freedom Engineering and Chaos Engineering and a Morally Deep World Engineering and Globalism Engineering and Love Case Study Application Final Thoughts

**Engineering and Social Justice** Caroline Baillie, Alice Pawley, 2012-01-15 This book is aimed at engineering academics worldwide who are attempting to bring social justice into their work and practice or who would like to but don't know where to start This is the first book dedicated specifically to University professionals on Engineering and Social Justice an emerging and exciting area of research and practice An international team of multidisciplinary authors share their insights and invite and inspire us to

reformulate the way we work Each chapter is based on research and yet presents the outcomes of scholarly studies in a user oriented style We look at all three areas of an engineering academic s professional role research teaching and community engagement Some of our team have created classes which help students think through their role as engineering practitioners in society Others are focusing their research on outcomes that are socially just and for client groups who are marginalized and powerless Yet others are consciously engaging local community groups and exploring ways in which the University might serve communities at home and globally from a post development perspective We are additionally concerned with the student cohort and who has access to engineering studies We take a broad social and ecological justice perspective to critique existing and explore alternative practices This book is a handbook for any engineering academic who wishes to develop engineering graduates as well as technologies and practices that are non oppressive equitable and engaged It is also an essential reader for anyone studying in this interdisciplinary juncture of social science and engineering Scholars using a critical theoretical lens on engineering practice and education from Science and Technology Studies History and Philosophy of Engineering Engineering and Science Education will find this text invaluable Engineering and Society: Working Towards Social Justice, Part I Caroline Baillie, George Catalano, 2022-05-31 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 shaped by our decisions we need to regain our place as professionals to realise the significance of our work and to take responsibility in a much deeper sense Engineers must develop the ability to respond to emerging needs of all people across all cultures To do this requires insights and knowledge which are at present largely within the domain of the social and political sciences but which need to be shared with our students in ways which are meaningful and relevant to engineering This book attempts to do just that In Part 1 Baillie introduces ideas associated with the ways in which engineers relate to the communities in which they work Drawing on scholarship from science and technology studies globalisation and development studies as well as work in science communication and dialogue this introductory text sets the scene for an engineering community which engages with the public In Part 2 Catalano frames the thinking processes necessary to create ethical and just decisions in engineering to understand the implications of our current decision making processes and think about ways in which we might adapt these to become more socially just in the future In Part 3 Baillie and Catalano have provided case studies of everyday issues such as water garbage and alarm clocks to help us consider how we might see through the lenses of our new knowledge from Parts 1 and 2 and apply this to our every day existence as engineers Table of Contents Introduction Engineering and Society Engineering and the Public Globalisation Development and Technology

**Just Technology** Thomas J. Siller, Gearold Johnson, 2022-05-31 To address the complexity of today's global challenges requires new ways of thinking. The idea that technology is always the best maybe only approach worth taking needs to be reconsidered. Sustainable approaches must also draw from non technological areas. To that end this book introduces the idea of just technology by rephrasing the idea of just war in order to include concepts of sustainability in future engineering design. The book begins by defining justice and relating these definitions to technology. This is followed by illustrating several notions of sustainability and the awareness that needs to be focused on societal challenges due to the finite resources available in the natural world. Four questions are enumerated to be addressed in order to qualify as a just use of technology: 1 Is the harm being inflicted by the problem on the community, the environment or humanity in general lasting serious and certain? 2 Have all alternative solutions been investigated first including non technology based solutions? Technology is the last choice not the first. 3 Do we have confidence in the successful implementation of this technological solution? and 4 Is the potential harm from the technological solution potentially worse than the issue being addressed? Have all unintended consequences been considered that could arise from the technological solution? The book ends with a description for implementing these questions into the traditional engineering design process. Examples are included for reflection and help to understand how the design process proceeds.

**Just Technology** Thomas Siller, Gearold Johnson, 2025-03-17 The readers of the book *Just Technology: The Quest for Cultural, Economic, Environmental and Technical Sustainability* Second Edition will benefit from its systematic approach in evaluating the true sustainability challenges facing society and will learn how to address these challenges in a just manner. Since the publication of the first edition of the book the concept of a just society has become more important. Several new contemporary examples are now included to reinforce the concepts introduced in the previous edition. The book presents a framework to evaluate the appropriateness of technological approaches to address critical sustainable issues. The framework comprises four questions that aim to create more just approaches by broadening the context engineers consider when formulating solutions. Addressing the complexity of today's global challenges requires new ways of thinking. The idea that technology is always the best maybe the only approach needs to be reconsidered and sustainable approaches must also draw from nontechnological areas.

*Engineering Justice* Jon A. Leydens, Juan C. Lucena, 2017-12-18 Shows how the engineering curriculum can be a site for rendering social justice visible in engineering for exploring complex socio technical interplays inherent in engineering practice and for enhancing teaching and learning. Using social justice as a catalyst for curricular transformation *Engineering Justice* presents an examination of how politics, culture and other social issues are inherent in the practice of engineering. It aims to align engineering curricula with socially just outcomes, increase enrollment among underrepresented groups and lessen lingering gender, class and ethnicity gaps by showing how the power of engineering knowledge can be explicitly harnessed to serve the underserved and address social inequalities. This book is meant to transform the way educators think about engineering curricula through

creating or transforming existing courses to attract retain and motivate engineering students to become professionals who enact engineering for social justice Engineering Justice offers thought provoking chapters on why social justice is inherent yet often invisible in engineering education and practice engineering design for social justice social justice in the engineering sciences social justice in humanities and social science courses for engineers and transforming engineering education and practice In addition this book Provides a transformative framework for engineering educators in service learning professional communication humanitarian engineering community service social entrepreneurship and social responsibility Includes strategies that engineers on the job can use to advocate for social justice issues and explain their importance to employers clients and supervisors Discusses diversity in engineering educational contexts and how it affects the way students learn and develop Engineering Justice is an important book for today s professors administrators and curriculum specialists who seek to produce the best engineers of today and tomorrow

**Engineering Manhood** Jonson Miller,2020-10-01 It is not an accident that American engineering is so disproportionately male and white it took and takes work to create and sustain this situation Engineering Manhood Race and the Antebellum Virginia Military Institute examines the process by which engineers of the antebellum Virginia Military Institute cultivated whiteness manhood and other intersecting identities as essential to an engineering professional identity VMI opened in 1839 to provide one of the earliest and most thorough engineering educations available in antebellum America The officers of the school saw engineering work as intimately linked to being a particular type of person one that excluded women or black men This particular white manhood they crafted drew upon a growing middle class culture These precedents impacted engineering education broadly in this country and we continue to see their legacy today

*Humanitarian Engineering* Carl Mitcham,David Munoz,2022-05-31 Humanitarian Engineering reviews the development of engineering as a distinct profession and of the humanitarian movement as a special socio political practice Having noted that the two developments were situated in the same geographical and historical space that is in Europe and North America beginning in the 1700s the book argues for a mutual influence and synthesis that has previously been lacking In this spirit the first of two central chapters describes humanitarian engineering as the artful drawing on science to direct the resources of nature with active compassion to meet the basic needs of all especially the powerless poor or otherwise marginalized A second central chapter then considers strategies for education in humanitarian engineering so conceived Two final chapters consider challenges and implications Table of Contents Engineering Humanitarianism Humanitarian Engineering Humanitarian Engineering Education Challenges Conclusion Humanizing Technology

*LEGO Studies* Mark Wolf,2014-11-13 Since the Automatic Binding Bricks that LEGO produced in 1949 and the LEGO System of Play that began with the release of Town Plan No 1 1955 LEGO bricks have gone on to become a global phenomenon and the favorite building toy of children as well as many an AFOL Adult Fan of LEGO LEGO has also become a medium into which a wide number of media franchises including Star Wars Harry Potter Pirates of the Caribbean Batman



Superman Lord of the Rings and others have adapted their characters vehicles props and settings The LEGO Group itself has become a multimedia empire including LEGO books movies television shows video games board games comic books theme parks magazines and even MMORPGs LEGO Studies Examining the Building Blocks of a Transmedial Phenomenon is the first collection to examine LEGO as both a medium into which other franchises can be adapted and a transmedial franchise of its own Although each essay looks at a particular aspect of the LEGO phenomenon topics such as adaptation representation paratexts franchises and interactivity intersect throughout these essays proposing that the study of LEGO as a medium and a media empire is a rich vein barely touched upon in Media Studies **Because Technology Discriminates** Logan D. A.

Williams,2023-03-31 Engineers designing technologies and systems produce problems when they do not account for existing biases in society Designers have a mandate to make technologies efficiently economically and ethically This textbook is written for both students and practicing designers engineers researchers or artists who want to create more ethical designs it aims to help readers understand how race is implicated in technology design Learning from historical and contemporary case studies of engineering and architecture projects will help readers see clearly the power of design decisions to either perpetuate or contest racism Chapter exercises will change engineers mental models to see the bias inherent to existing technological design By incorporating the knowledge and insights of community based experts into design projects readers will begin to practice anti racist leadership and counter expertise **Earth in Crisis** George Catalano,2022-10-05 This book examines the ethical responsibilities of engineers and scientists in light of new advances in science with a distinct reflection on quantum mechanics This thorough coverage of these new advances will assist the reader in rethinking our place in the universe and broadening a sense of ethical responsibility for the planet This book addresses an approach to integrating these changes and deal with issues such as global climate change and the sixth extinction This book compares new ideas in engineering that extend ethical boundaries beyond our present understanding in which Engineering ethics is locked in the world view of the 18th and 19th centuries This books coverage examines how our understanding of the world has changed due to developments in science and society to include green humanitarian social justice and omnium approaches to the engineering profession The coverage of societal and ethics in science and engineering practice are examined through four major areas Green engineering is the design that promotes the use of processes and products that minimize pollution promote sustainability and protect human health without sacrificing economic viability and efficiency Humanitarian engineering seeks to directly improve the well being of poor marginalized or under served communities which often lack the means to address pressing problems Engineering for social justice imagines a new kind of engineering firmly affixed to the common good Finally a new approach omnium engineering seeks to promote an engineering profession that considers the wants and needs of all life forms not only that of the human species The scope of this treatise is to examine the premise that the earth is facing grave crises when confronting global climate change and the sixth extinction Engineering may be the

planet's last best hope but it requires a new ethic that takes a much broader view of the profession's ethical responsibilities. Moreover, the engineering ethic is rooted in the science of the past: Newtonian mechanics. Science has changed: quantum mechanics. But the engineering world view has not. Embracing this new science will inevitably lead to a new story of our responsibilities towards the planet.

### **Critical, Transdisciplinary and Embodied Approaches in STEM Education**

Pratim Sengupta, Marie-Claire Shanahan, Beaumie Kim, 2019-12-16 Over the past decade, integrated STEM education research has emerged as an international concern, creating around it an imperative for technological and disciplinary innovation and a global resurgence of interest in teaching and learning to code at the K-16 levels. At the same time, issues of democratization, equity, power, and access, including recent decolonizing efforts in public education, are also beginning to be acknowledged as legitimate issues in STEM education. Taking a reflexive approach to the intersection of these concerns, this book presents a collection of papers making new theoretical advances addressing two broad themes: Transdisciplinary Approaches in STEM Education and Bodies, Hegemony, and Decolonization in STEM Education. Within each theme, praxis is of central concern, including analyses of teaching and learning that reimagines disciplinary boundaries and domains, the relationship between Art and STEM, and the design of learning technologies, spaces, and environments. In addition to graduate research seminars at the Masters and PhD levels in Learning Sciences, Science Education, Educational Technology, and STEM education, this book could also serve as a textbook for graduate and pre-service teacher education courses.

### **Engineering and War**

Ethan Blue, Michael Levine, Dean Nieusma, 2022-06-01 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.

### **Science Curriculum for the Anthropocene, Volume 2**

Xavier Fazio, 2023-12-27 This edited volume, the second of a two-volume set, presents science curriculum exemplars based on existing and future curriculum models. Drawing upon complexity and systems theories, this book will provide a framework for

science curriculum that tackles and transforms the interrelated and socio ecological causes of our ecological crises The result is a refreshing and hopeful look at K 12 science curriculum in light of our current global trajectory in the twenty first century Chapter Future oriented Science Education Building Sustainability Competences An Approach to the European GreenComp Framework is available open access under a Creative Commons Attribution 4 0 International License via link [springer.com](https://www.springer.com)

**The Routledge Handbook of the Philosophy of Engineering** Diane P. Michelfelder, Neelke Doorn, 2020-12-29 Engineering has always been a part of human life but has only recently become the subject matter of systematic philosophical inquiry The Routledge Handbook of the Philosophy of Engineering presents the state of the art of this field and lays a foundation for shaping future conversations within it With a broad scholarly scope and 55 chapters contributed by both established experts and fresh voices in the field the Handbook provides valuable insights into this dynamic and fast growing field The volume focuses on central issues and debates established themes and new developments in Foundational perspectives Engineering reasoning Ontology Engineering design processes Engineering activities and methods Values in engineering Responsibilities in engineering practice Reimagining engineering The Routledge Handbook of the Philosophy of Engineering will be of value for both students and active researchers in philosophy of engineering and in cognate fields philosophy of technology philosophy of design It is also intended for engineers working both inside and outside of academia who would like to gain a more fundamental understanding of their particular professional field The increasing development of new technologies such as autonomous vehicles and new interdisciplinary fields such as human computer interaction calls not only for philosophical inquiry but also for engineers and philosophers to work in collaboration with one another At the same time the demands on engineers to respond to the challenges of world health climate change poverty and other so called wicked problems have also been on the rise These factors together with the fact that a host of questions concerning the processes by which technologies are developed have arisen make the current Handbook a timely and valuable publication

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