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Nota di contenuto	Introduction -- Part I: Ethical Issues in a Globalized World -- Chapter 1: US Engagement in International Activity in Engineering Ethics; Rachelle Hollander -- Chapter 2: Global Engineering and National Technology Policies: Is There a Conflict?; Hal Salzman and Leonard Lynn -- Chapter 3: International Ethics and Failures: Case Studies; Norb Delatte -- Chapter 4: "Global Engineering Ethics": Re-inventing the Wheel?; Michael Davis -- Chapter 5: Social, Cultural, Political, and Religious Constraints on Designing an Ethical Framework for Engineering in a Global Context; Noreen Sugrue and Tim McCarthy -- Chapter 6: The Significance of Context in the Reconstitution of Notions of Moral Responsibility in Engineering Ethics; Muhammad Haris -- Chapter 7: Foundations of Global Ethics for Engineering; Peter Kilpatrick -- Chapter 8: International Ethics: A Case Study in the Construction Industry; George Wang -- Chapter 9: Engineering and Climate Change: Why the Choice of Ethical Perspective Matters; Khalid Mir -- Chapter 10: Enriching Engineering Ethics with Development Ethics: A Proposal to Draw on the CA; Ilse Oosterlaken -- Chapter 11: Importance of Professional Ethics to Information Technology; Sajjad Mohsin and Sadaf Sajjad -- Chapter 12: Resources for Overcoming the Challenges of Teaching Engineering Ethics in an International Context; Brock Barry --

Chapter 13: Responsible Conduct of Research Training for Engineers: Adapting Research Ethics Training for Engineering Graduate Students; Sara Jordan and Philip Gray -- Chapter 14: A Cross Cultural Comparison of Engineering Ethics Education: Chile and United States; Ruth I. Murrugarra and William A. Wallace -- Chapter 15: Integrating the Ethics Dimension in Undergraduate Teaching in the College of Engineering at Qatar University: Challenges and Future Outlook; Ramazan Kahraman and Majeda Khraisheh -- Chapter 16: Training Responsible Engineers for Global Contexts; William Frey -- Chapter 17: Toward a Global Engineering (Ethics) Curriculum; Eugene Moriarty.

Sommario/riassunto

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.
