

1. Record Nr.	UNINA9910438336203321
Titolo	Norms in Technology [[electronic resource] /] / edited by Marc J de Vries, Sven Ove Hansson, Anthonie W.M. Meijers
Pubbl/distr/stampa	Dordrecht : , : Springer Netherlands : , : Imprint : Springer, , 2013
ISBN	1-283-86567-X 94-007-5243-1
Edizione	[1st ed. 2013.]
Descrizione fisica	1 online resource (237 p.)
Collana	Philosophy of Engineering and Technology, , 1879-7202 ; ; 9
Disciplina	607
Soggetti	Philosophy Epistemology Ethics Philosophy of Technology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Preface -- Introduction -- Part I. Normativity in Technological Knowledge and Action.-Chapter 1. Extending the scope of technological knowledge: Anthonie W.M. Meijers and Peter Kroes -- Chapter 2. Rules, plans and the normativity of technological knowledge: Wybo Houkes -- Chapter 3. Beliefs, acceptances and technological knowledge: Marc J. de Vries and Anthonie W.M. Meijers -- Chapter 4. Policy objectives and the functions of transport systems: Holger Rosencrantz -- Chapter 5. Rational Goals in Engineering Design: The Venice Dams Case: Karin Edvardsson Björnberg -- Part 2. Normativity and Artefact Norms -- Chapter 6. Valuation of Artefacts and the Normativity of Technology: Sven Ove Hansson -- Chapter 7. Artifactual norms: Krist Vaesen -- Chapter 8. Instrumental Artifact Functions and Normativity: Jesse Hughes -- Chapter 9. The goodness and kindness of artefacts: Maarten Franssen -- Part 3. Normativity and Technological Risks -- Chapter 10. The Non-Reductivity of Normativity in Risks: Niklas Möller -- Chapter 11. Risk and Degrees of Rightness: Martin Peterson and Nicolas Espinoza -- Chapter 12. Naturalness, Artifacts, and Value: Per Sandin -- Chapter 13. Trust in Technological Systems: Philip J. Nickel -- Index.

This book is a distinctive fusion of philosophy and technology, delineating the normative landscape that informs today's technologies and tomorrow's inventions. The authors examine what we deem to be the internal norms that govern our ever-expanding technical universe. Recognizing that developments in technology and engineering literally create our human future, transforming existing knowledge into tomorrow's tools and infrastructure, they chart the normative criteria we use to evaluate novel technological artifacts: how, for example, do we judge a 'good' from a 'bad' expert system or nuclear power plant? As well as these 'functional' norms, and the norms that guide technological knowledge and reasoning, the book examines commonly agreed benchmarks in safety and risk reduction, which play a pivotal role in engineering practice. Informed by the core insight that, in technology and engineering, factual knowledge relating, for example, to the properties of materials or the load-bearing characteristics of differing construction designs is not enough, this analysis follows the often unseen foundations upon which technologies rest—the norms that guide the creative forces shaping the technical landscape to come. The book, a comprehensive survey of these emerging topics in the philosophy of technology, clarifies the role these norms (epistemological, functional, and risk-assessing) play in technological innovation, and the consequences they have for our understanding of technological knowledge.
