1. Record Nr. UNINA9910299890903321

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Titolo	Technical Safety – An Attribute of Quality [[electronic resource]] : An Interdisciplinary Approach and Guideline / / by Hubert Keller, Wolf-Dieter Pilz, Bernd Schulz-Forberg, Christian Langenbach
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2018
ISBN	3-319-68625-9
Edizione	[1st ed. 2018.]
Descrizione fisica	1 online resource (VIII, 190 p. 6 illus.)
Disciplina	658.56
Soggetti	Quality control Reliability Industrial safety Manufactures Quality Control, Reliability, Safety and Risk Manufacturing, Machines, Tools, Processes
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Preamble -- Development of Technical Safety -- Interdisciplinary Approach -- Need for a Safety-Methodological Concept -- Generating Safety -- Limits of Safety -- Verifiability of Safety -- Social Considerations -- Interdisciplinary Safety Guideline -- Understanding of the Term Safety -- Introduction to Interdisciplinary Safety Engineering -- Generating Safety -- Safety-compliant Design in Civil Engineering and Process Plant Engineering -- Proposal of the VDI “Technical Safety” Committee -- Summary – lessons learned.
Sommario/riassunto	This book focuses on technical safety, means of expanding the current procedures, and making the related risks more predictable. It identifies the ‘hidden commonalities’ of the various technical safety concepts and formulates a corresponding procedure, applicable across disciplines, in a single guideline. The future is now: we constantly face change through science, research and technologies, change through industrial development, and new innovations and complexities. Our society fundamentally depends on technical systems, infrastructures and

interconnected smart components, in every corner of the human environment. And these systems bring with them the need for technical safety. The risks of extending what is technically feasible have to be identified and analyzed at an early stage so as to avoid and/or mitigate potential harm by means of appropriate countermeasures. Every technical field interprets technical safety in its own way. However, if a safety concept is to be comprehensively applied, it must be compatible with all technical fields – a challenge this book successfully addresses. .