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Titolo	Handbook of engineering systems design // edited by Anja Maier, Josef Oehmen, Pieter E. Vermaas
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ISBN	9783030460549 3030460541
Edizione	[Living Edition.]
Descrizione fisica	1 online resource (various pagings) : illustrations (chiefly colour)
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Soggetti	Engineering design Information technology Psychology, Industrial Economics - Sociological aspects Engineering economy
Lingua di pubblicazione	Inglese
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Nota di bibliografia	Includes bibliographical references.
Sommario/riassunto	"This handbook charts the new engineering paradigm of engineering systems. It brings together contributions from leading thinkers in the field and discusses the design, management and enabling policy of engineering systems. It contains explorations of core themes including technical and (socio-) organisational complexity, human behaviour and uncertainty. The text includes chapters on the education of future engineers, the way in which interventions can be designed, and presents a road map for the future. This book follows the emergence of engineering systems, a new engineering paradigm that will help solve truly global challenges. This global approach is characterized by complex sociotechnical systems that are now co-dependent and highly integrated both functionally and technically as well as by a realization that we all share the same: climate, natural resources, a highly integrated economical system and a responsibility for global sustainability goals. The new paradigm and approach requires the (re) designing of engineering systems that take into account the shifting

dynamics of human behaviour, the influence of global stakeholders, and the need for system integration. The text is a reference point for scholars, engineers and policy leaders who are interested in broadening their current perspective on engineering systems design and in devising interventions to help shape societal futures."--Provided by publisher.
