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   Autore   Lefteri Chris

   Titolo   Materials for design / / Chris Lefteri ; project editor, Gaynor Sermon ;
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   Descrizione fisica   256p. ; : chiefly ill. (chiefly col)

   Disciplina   620.11

   Soggetti   Industrial design

   Lingua di pubblicazione   Inglese

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   Livello bibliografico   Monografia

   Note generali   Description based upon print version of record.

   Nota di bibliografia   Includes bibliographical references and index.

2.	Record Nr.	UNINA9910298490203321
	Autore	de Almeida Adiel Teixeira
	Titolo	Multicriteria and Multiobjective Models for Risk, Reliability and Maintenance Decision Analysis / / by Adiel Teixeira de Almeida, Cristiano Alexandre Virgínio Cavalcante, Marcelo Hazin Alencar, Rodrigo José Pires Ferreira, Adiel Teixeira de Almeida-Filho, Thalles Vitelli Garcez
	Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2015
	ISBN	3-319-17969-1
	Edizione	[1st ed. 2015.]
	Descrizione fisica	1 online resource (417 p.)
	Collana	International Series in Operations Research & Management Science, , 0884-8289 ; ; 231
	Disciplina	658.403
	Soggetti	Operations research Decision making Probabilities Mathematical optimization Operations Research/Decision Theory Probability Theory and Stochastic Processes Optimization
	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 at the end of each chapters and index.
	Nota di contenuto	Multiobjective and Multicriteria Problems and Decision Models -- Multiobjective and Multicriteria Decision Processes and Methods -- Basic Concepts on Risk Analysis, Reliability and Maintenance -- Multidimensional Risk Analysis -- Preventive Maintenance Decisions -- Decision Making in Condition-Based Maintenance -- Decision on Maintenance Outsourcing -- Spare Parts Planning Decisions -- Decision on Redundancy Allocation -- Design Selection Decisions -- Decisions on Priority Assignment for Maintenance Planning -- Other Risk, Reliability and Maintenance Decision Problems.
	Sommario/riassunto	This book integrates multiple criteria concepts and methods for problems within the Risk, Reliability and Maintenance (RRM) context.

The concepts and foundations related to RRM are considered for this integration with multicriteria approaches. In the book, a general framework for building decision models is presented and this is illustrated in various chapters by discussing many different decision models related to the RRM context. The scope of the book is related to ways of how to integrate Applied Probability and Decision Making. In Applied Probability, this mainly includes: decision analysis and reliability theory, amongst other topics closely related to risk analysis and maintenance. In Decision Making, it includes a broad range of topics in MCDM (Multi-Criteria Decision Making) and MCDA (Multi-Criteria Decision Aiding; also known as Multi-Criteria Decision Analysis). In addition to decision analysis, some of the topics related to Mathematical Programming area are briefly considered, such as multiobjective optimization, since methods related to these topics have been applied to the context of RRM. The book addresses an innovative treatment for the decision making in RRM, thereby improving the integration of fundamental concepts from the areas of both RRM and decision making. This is accomplished by presenting an overview of the literature on decision making in RRM. Some pitfalls of decision models when applying them to RRM in practice are discussed and guidance on overcoming these drawbacks is offered. The procedure enables multicriteria models to be built for the RRM context, including guidance on choosing an appropriate multicriteria method for a particular problem faced in the RRM context. The book also includes many research advances in these topics. Most of the multicriteria decision models that are described are specific applications that have been influenced by this research and the advances in this field. Multicriteria and Multiobjective Models for Risk, Reliability and Maintenance Decision Analysis is implicitly structured in three parts, with 12 chapters. The first part deals with MCDM/A concepts methods and decision processes. The second part presents the main concepts and foundations of RRM. Finally the third part deals with specific decision problems in the RRM context approached with MCDM/A models.