Record Nr.	UNINA9910299837803321
Autore	Adams Kevin MacG
Titolo	Non-functional Requirements in Systems Analysis and Design / / by Kevin MacG. Adams
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2015
ISBN	3-319-18344-3
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (276 p.)
Collana	Topics in Safety, Risk, Reliability and Quality, , 1566-0443 ; ; 28
Disciplina	620 620.0042 658.56
Soggetti	Engineering design Computational complexity Quality control Reliability Industrial safety Engineering Design Complexity Quality Control, Reliability, Safety and Risk
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	Part I Introduction Part II Sustainment Concerns Part III Design Concerns Part IV Adaptation Concerns Part V Viability Concerns Part VI Conclusion.
Sommario/riassunto	This book will help readers gain a solid understanding of non- functional requirements inherent in systems design endeavors. It contains essential information for those who design, use, and maintain complex engineered systems, including experienced designers, teachers of design, system stakeholders, and practicing engineers. Coverage approaches non-functional requirements in a novel way by presenting a framework of four systems concerns into which the 27 major non-functional requirements fall: sustainment, design, adaptation, and viability. Within this model, the text proceeds to define each non-functional requirement, to specify how each is treated as an

1.

element of the system design process, and to develop an associated metric for their evaluation. Systems are designed to meet specific functional needs. Because non-functional requirements are not directly related to tasks that satisfy these proposed needs, designers and stakeholders often fail to recognize the importance of such attributes as availability, survivability, and robustness. This book gives readers the tools and knowledge they need to both recognize the importance of these non-functional requirements and incorporate them in the design process.