1. Record Nr. UNINA9911006631303321 Autore Weilkiens Tim Titolo Systems engineering with SysML/UML: modeling, analysis, design // Tim Weilkiens Amsterdam; ; Boston, : Morgan Kaufmann OMG Press/Elsevier, c2007 Pubbl/distr/stampa **ISBN** 9786611189440 9781281189448 1281189448 9780080558318 0080558313 Edizione [1st edition] Descrizione fisica 1 online resource (320 p.) Collana The MK/OMG Press Disciplina 620.001/171 Soggetti Systems engineering SysML (Computer science) UML (Computer science) 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 (p. 295-297) and index. Nota di contenuto Front Cover; Systems Engineering with Sysml/UML; Copyright Page; Contents; Foreword; Author Biography; CHAPTER 1 Introduction; 1.1 Preliminaries; 1.1.1 Is This Book for Me?; 1.1.2 What Will I Get from This Book?; 1.1.3 What Motivated This Book? And Thanks!; 1.1.4 How Do I Read This Book?; 1.1.5 What Next?; 1.2 Systems Engineering; 1.2.1 What Is Systems Engineering?; 1.2.2 Systems Engineering Processes; 1.2.3 The Systems Engineer; 1.2.4 Systems Engineering History; 1.2.5 International Council on Systems Engineering; 1.2.6 Systems Engineering versus Software Engineering: 1.2.7 Marginal Notes 1.3 The OMG SysMLTM and UMLTM Languages 1.4 Book Context; 1.4.1 Autosar; 1.4.2 Capability Maturity Model Integration; 1.4.3 BPM; 1.4.4

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Sommario/riassunto

UML, the Universal Modeling Language, was the first programming language designed to fulfill the requirement for ""universality."" However, it is a software-specific language, and does not support the needs of engineers designing from the broader systems-based perspective. Therefore, SysML was created. It has been steadily gaining popularity, and many companies, especially in the heavily-regulated Defense, Automotive, Aerospace, Medical Device and Telecomms industries, are already using SysML, or are planning to switch over to it in the near future. However, little information is curr