1.

Record Nr.	UNINA9910132301403321
Autore	Fritzson Peter A. <1952->
Titolo	Principles of object oriented modeling and simulation with Modelica 3.3 : a cyber-physical approach / / Peter Fritzson
Pubbl/distr/stampa	Hoboken, New Jersey : , : John Wiley & Sons Inc., , [2015] ©2015
ISBN	1-118-85916-2 1-118-98916-3 1-118-85897-2
Edizione	[2nd ed.]
Descrizione fisica	1 online resource (1252 p.)
Disciplina	005.1 005.117
Soggetti	Object-oriented methods (Computer science) Computer simulation
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	Cover; Title Page; Copyright Page; Table of Contents; Preface; About the Author; About this Book; Reading Guide; Acknowledgements; Contributions to Examples; Contributors to the Modelica Standard Library, Version 3.2.1; Contributors to the Modelica Standard Library, Versions 1.0 to 2.1; Contributors to the Modelica Language, Version 3.3 and Version 3.3 revision 1; Contributors to the Modelica Language, Version 3.2; Contributors to the Modelica Language, Version 3.0; Contributors to the Modelica Language, Version 2.0; Contributors to the Modelica Language, up to Version 1.3 Modelica Association Member Companies and Organizations 2013Funding Contributions; Part I Introduction; Chapter 1 Introduction to Modeling and Simulation; 1.1 Systems and Experiments; 1.2 The Model Concept; 1.3 Simulation; 1.4 Building Models; 1.5 Analyzing Models; 1.6 Kinds of Mathematical Models; 1.7 Using Modeling and Simulation in Product Design; 1.8 Examples of System Models; 1.9 Summary; 1.10 Literature; Chapter 2 A Quick Tour of Modelica; 2.1 Getting Started with Modelica; 2.2 Object-Oriented Mathematical Modeling; 2.3 Classes and Instances; 2.4 Inheritance; 2.5 Generic

Classes

| Sommario/riassunto | Fritzson covers the Modelica language in impressive depth from the basic concepts such as cyber-physical, equation-base, object-oriented, system, model, and simulation, while also incorporating over a hundred exercises and their solutions for a tutorial, easy-to-read experience.

 The only book with complete Modelica 3.3 coverage Over one hundred exercises and solutions Examines basic concepts such as cyber-physical, equation-based, object-oriented, system, model, and simulation |