1. Record Nr.   UNINA9910830352803321

   Autore   Fritzson Peter A. <1952->

   Titolo   Introduction to modeling and simulation of technical and physical
                        systems with Modelica / / Peter Fritzson

   Pubbl/distr/stampa   Hoboken, N.J. : , : Wiley : , : IEEE Press
                        [Piscataqay, New Jersey] : , : IEEE Xplore, , [2012]

   ISBN   1-283-39780-3
                        9786613397805
                        1-118-09424-7

   Descrizione fisica   1 online resource (227 p.)

   Disciplina   003.3
                        003/.3

   Soggetti   Systems engineering - Data processing
                        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   Frontmatter -- Basic Concepts -- A Quick Tour of Modelica -- Classes
                        and Inheritance -- System Modeling Methodology -- The Modelica
                        Standard Library -- Appendix A: Glossary -- Appendix B:
                        OpenModelica and OMNotebook Commands -- Appendix C: Textual
                        Modeling with OMNotebook and DrModelica -- Appendix D: Graphical
                        Modeling Exercises -- References -- Index.

   Sommario/riassunto   Master modeling and simulation using Modelica, the new powerful,
                        highly versatile object-based modeling language Modelica, the new
                        object-based software/hardware modeling language that is quickly
                        gaining popularity around the world, offers an almost universal
                        approach to high-level computational modeling and simulation. It
                        handles a broad range of application domains, for example mechanics,
                        electrical systems, control, and thermodynamics, and facilitates general
                        notation as well as powerful abstractions and efficient
                        implementations. Using the versatile Modelica language and its assoc