1. Record Nr. UNINA9910829915303321

Autore	Sanden Bo
Titolo	Design of multithreaded software : the entity-life modeling approach / / by Bo Sanden
Pubbl/distr/stampa	Oxford : , : Wiley-Blackwell, , 2011 [Piscataqay, New Jersey] : , : IEEE Xplore, , [2011]
ISBN	1-118-10273-8 1-283-30606-9 9786613306067 0-470-90490-9 0-470-90491-7
Descrizione fisica	1 online resource (320 p.)
Disciplina	005.275
Soggetti	Threads (Computer programs) Computer software - Development
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	Foundations. Introduction -- Support for Multithreading -- State Modeling -- The ELM Way. Entity-Life Modeling -- Design Patterns Based on Event Threads -- Event-Thread Patterns for Resource Sharing -- Simultaneous Exclusive Access to Multiple Resources -- Background and Discussion. Real-Time Software Architectures and Data-Flow Design Approaches -- The Origins of Entity-Life Modeling.
Sommario/riassunto	This book assumes familiarity with threads (in a language such as Ada, C#, or Java) and introduces the entity-life modeling (ELM) design approach for certain kinds of multithreaded software. ELM focuses on "reactive systems," which continuously interact with the problem environment. These "reactive systems" include embedded systems, as well as such interactive systems as cruise controllers and automated teller machines.Part I covers two fundamentals: program-language thread support and state diagramming. These are necessary for understanding ELM and are provided primarily for reference. P.