

1. Record Nr.	UNINA9910768466203321
Titolo	Fundamental Approaches to Software Engineering [[electronic resource] ] : First International Conference, FASE'98, Held as Part of the Joint European Conferences on Theory and Practice of Software, ETAPS'98, Lisbon, Portugal, March 28 - April 4, 1998, Proceedings / / edited by Egidio Astesiano
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 1998
ISBN	3-540-69723-3
Edizione	[1st ed. 1998.]
Descrizione fisica	1 online resource (IX, 329 p.)
Collana	Lecture Notes in Computer Science, , 0302-9743 ; ; 1382
Disciplina	005.1
Soggetti	Software engineering Programming languages (Electronic computers) Computer logic Software Engineering/Programming and Operating Systems Software Engineering Programming Languages, Compilers, Interpreters Logics and Meanings of Programs
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	Extreme programming: A humanistic discipline of software development -- Some mistakes I have and what I have learned from them -- Specifying and analyzing dynamic software architectures -- Observational proofs with critical contexts -- Integrating AORTA with model-based data specification languages -- Specifying safety-critical embedded systems with statecharts and Z: A case study -- Specifying embedded systems with statecharts and Z: An agenda for cyclic software components -- Algebra transformation systems and their composition -- Navigation expressions in object-oriented modelling -- Compositional verification of reactive systems specified by graph transformation -- Reflections on the design of a specification language -- Constructs, concepts and criteria for reuse in concurrent object-oriented languages -- Backtracking-free design planning by automatic

synthesis in metaframe -- Model-checking CSP-Z -- Rule-based refinement of high-level nets preserving safety properties -- Automated formal analysis of networks: FDR models of arbitrary topologies and flow-control mechanisms -- Behaviour analysis and safety conditions: A case study in CML -- Distributed safety controllers for web services -- A refinement calculus for statecharts -- Refining formal specifications of human computer interaction by graph rewrite rules -- RELVIEW — A system for calculating with relations and relational programming -- ALBERT: A formal language and its supporting tools for requirements engineering -- Moby/plc — A design tool for hierarchical real-time automata.

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Sommario/riassunto

This book constitutes the refereed proceedings of the First International Conference on Fundamental Approaches to Software Engineering, FASE'98, held as part of the Joint European Conferences on Theory and Practice of Software, ETAPS'98, held in Lisbon, Portugal, in March/April 1998. Besides two invited presentations and three system demonstrations, this volume presents 18 revised full papers selected from a total of 59 submissions. Among the various fundamental software engineering issues addressed are formal methods, specification languages, refinement, object-oriented modeling, software architectures, statecharts, model checking, etc.

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