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Titolo	Graph and model transformation : general framework and applications // by Hartmut Ehrig, Claudia Ermel, Ulrike Golas, Frank Hermann
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Descrizione fisica	1 online resource (468 p.)
Collana	Monographs in Theoretical Computer Science. An EATCS Series, , 1431- 2654
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Soggetti	Computers Software engineering Categories (Mathematics) Algebra, Homological Theory of Computation Software Engineering/Programming and Operating Systems Category Theory, Homological Algebra
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	General Introduction -- Graph Transformation -- Model Transformation -- Adhesive and M-adhesive Categories -- M-adhesive Transformation Systems -- Multi-amalgamated Transformations -- Model Transformation and Model Integration -- Analysis of Model Transformations -- Model Synchronisation -- Modelling and Static Analysis of Self-adaptive Systems by Graph Transformation -- Enterprise Modelling and Model Integration -- Tool Support -- App. A, Basic Notions of Category Theory -- App. B, Proofs and Additional Properties -- References -- Index.
Sommario/riassunto	This book is a comprehensive explanation of graph and model transformation. It contains a detailed introduction, including basic results and applications of the algebraic theory of graph transformations, and references to the historical context. Then in the main part the book contains detailed chapters on M-adhesive categories, M-adhesive transformation systems, and multi-

amalgamated transformations, and model transformation based on triple graph grammars. In the final part of the book the authors examine application of the techniques in various domains, including chapters on case studies and tool support. The book will be of interest to researchers and practitioners in the areas of theoretical computer science, software engineering, concurrent and distributed systems, and visual modelling.
