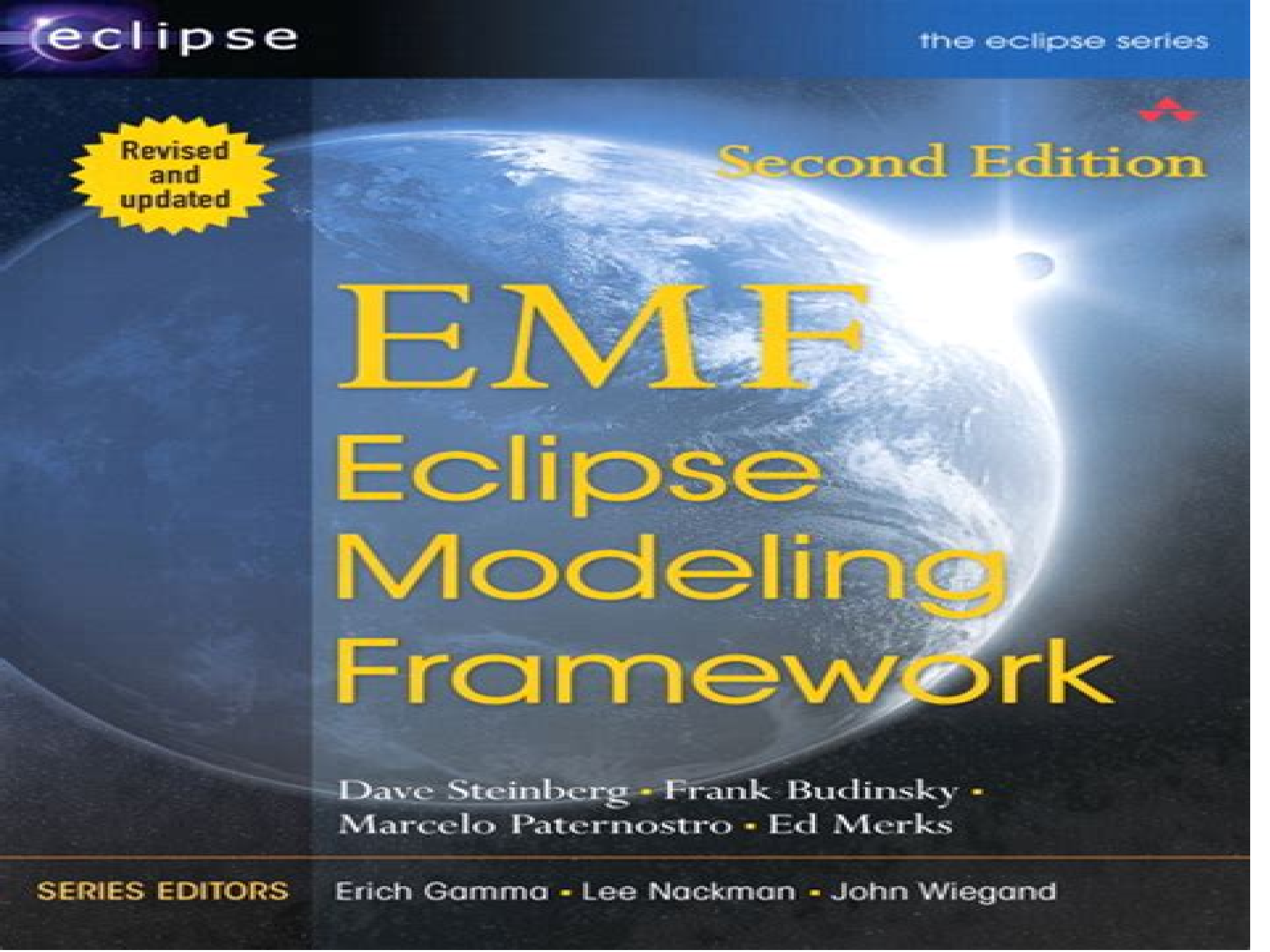




Second Edition

Revised  
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The background of the cover is a photograph of Earth from space, showing the blue and white clouds of the planet. A bright sun is partially obscured by the Moon, creating a solar eclipse effect. The title text is overlaid on this image.

# EMF

## Eclipse Modeling Framework

Dave Steinberg • Frank Budinsky •  
Marcelo Paternostro • Ed Merks

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Erich Gamma • Lee Nackman • John Wiegand

# Emf Eclipse Modeling Framework 2nd Edition

**Sven Matthias Peldszus**



## **Emf Eclipse Modeling Framework 2nd Edition:**

**EMF** Dave Steinberg, Frank Budinsky, Ed Merks, Marcelo Paternostro, 2008-12-16 **EMF Eclipse Modeling Framework** Dave Steinberg Frank Budinsky Marcelo Paternostro Ed Merks Series Editors Erich Gamma Lee Nackman John Wiegand The Authoritative Guide to EMF Modeling and Code Generation The Eclipse Modeling Framework enables developers to rapidly construct robust applications based on surprisingly simple models Now in this thoroughly revised Second Edition the project s developers offer expert guidance insight and examples for solving real world problems with EMF accelerating development processes and improving software quality This edition contains more than 40% new material plus updates throughout to make it even more useful and practical The authors illuminate the key concepts and techniques of EMF modeling analyze EMF s most important framework classes and generator patterns guide you through choosing optimal designs and introduce powerful framework customizations and programming techniques Coverage includes Defining models with Java UML XML Schema and Ecore NEW Using extended Ecore modeling to fully unify XML with UML and Java Generating high quality code to implement models and editors Understanding and customizing generated code Complete documentation of model Javadoc tags generator model properties and resource save and load options NEW Leveraging the latest EMF features including extended metadata feature maps EStore cross reference adapters copiers and content types NEW Chapters on change recording validation and utilizing EMF in stand alone and Eclipse RCP applications NEW Modeling generics with Ecore and generating Java 5 code About the Authors Dave Steinberg is a software developer in IBM Software Group He has worked with Eclipse and modeling technologies since joining the company and has been a committer on the EMF project since its debut in 2002 Frank Budinsky a senior architect in IBM Software Group is an original coinventor of EMF and a founding member of the EMF project at Eclipse He is currently cochair of the Service Data Objects SDO specification technical committee at OASIS and lead SDO architect for IBM Marcelo Paternostro is a software architect and engineer in IBM Software Group He is an EMF committer and has been an active contributor to several other Eclipse projects Before joining IBM Marcelo managed designed and implemented numerous projects using Rational s tools and processes Ed Merks is the project lead of EMF and a colead of the top level Modeling project at Eclipse He holds a Ph D in Computing Science and has many years of in depth experience in the design and implementation of languages frameworks and application development environments Ed works as a software consultant in partnership with itemis AG

**EMF : Eclipse Modeling Framework**, 2009 **Eclipse Modeling Framework** Frank Budinsky, 2004 bull Shows how EMF unifies three important technologies Java XML and UML bull Provides a comprehensive overview of the EMF classes including a complete quick reference for all the classes and methods in the EMF 1 1 API bull Includes examples of many common framework customizations and programming techniques EMF, 2009 The Eclipse Modeling Framework EMF is a framework and code generation facility that lets you define a model in Java interfaces UML diagram and XML Schema This book provides both an introduction and

tutorial to how to leverage and work with this powerful framework      Emf: Eclipse Modeling Framework, 2/E  
 Steinberg,2009-09      Security Compliance in Model-driven Development of Software Systems in Presence of Long-Term Evolution and Variants Sven Matthias Peldszus,2022-07-13 For ensuring a software system s security it is vital to keep up with changing security precautions attacks and mitigations Although model based development enables addressing security already at design time design models are often inconsistent with the implementation or among themselves An additional burden are variants of software systems To ensure security in this context we present an approach based on continuous automated change propagation allowing security experts to specify security requirements on the most suitable system representation We automatically check all system representations against these requirements and provide security preserving refactorings for preserving security compliance For both we show the application to variant rich software systems To support legacy systems we allow to reverse engineer variability aware UML models and semi automatically map existing design models to the implementation Besides evaluations of the individual contributions we demonstrate the approach in two open source case studies the iTrust electronics health records system and the Eclipse Secure Storage      **New Trends in Intelligent Software Methodologies, Tools and Techniques** Hector Perez-Meana,2021-09-15 The integration of AI with software is an essential enabler for science and the new economy creating new markets and opportunities for a more reliable flexible and robust society Current software methodologies tools and techniques often fall short of expectations however and much software remains insufficiently robust and reliable for a constantly changing and evolving market This book presents 54 papers delivered at the 20th edition of the International Conference on New Trends in Intelligent Software Methodology Tools and Techniques SoMeT\_21 held in Cancun Mexico from 21-23 September 2021 The aim of the conference was to capture the essence of a new state of the art in software science and its supporting technology and to identify the challenges that such a technology will need to master and this book explores the new trends and theories illuminating the direction of development in this field as it heads towards a transformation in the role of software and science integration in tomorrow s global information society The 54 revised papers were selected for publication by means of a rigorous review process involving 3 or 4 reviewers for each paper followed by selection by the SoMeT\_21 international reviewing committee The book is divided into 9 chapters classified by paper topic and relevance to the chapter theme Covering topics ranging from research practices techniques and methodologies to proposing and reporting on the solutions required by global business the book offers an opportunity for the software science community to consider where they are today and where they are headed in the future      **Modern Software Engineering Methodologies for Mobile and Cloud Environments** Rosado da Cruz, António Miguel,2016-01-20 As technology continues to evolve the popularity of mobile computing has become inherent within today s society With the majority of the population using some form of mobile device it has become increasingly important to develop more efficient cloud platforms Modern Software Engineering Methodologies for Mobile and Cloud Environments

investigates emergent trends and research on innovative software platforms in mobile and cloud computing Featuring state of the art software engineering methods as well as new techniques being utilized in the field this book is a pivotal reference source for professionals researchers practitioners and students interested in mobile and cloud environments

**Encyclopedia of Information Science and Technology, Fifth Edition** Khosrow-Pour D.B.A., Mehdi,2020-07-24 The rise of intelligence and computation within technology has created an eruption of potential applications in numerous professional industries Techniques such as data analysis cloud computing machine learning and others have altered the traditional processes of various disciplines including healthcare economics transportation and politics Information technology in today s world is beginning to uncover opportunities for experts in these fields that they are not yet aware of The exposure of specific instances in which these devices are being implemented will assist other specialists in how to successfully utilize these transformative tools with the appropriate amount of discretion safety and awareness Considering the level of diverse uses and practices throughout the globe the fifth edition of the Encyclopedia of Information Science and Technology series continues the enduring legacy set forth by its predecessors as a premier reference that contributes the most cutting edge concepts and methodologies to the research community The Encyclopedia of Information Science and Technology Fifth Edition is a three volume set that includes 136 original and previously unpublished research chapters that present multidisciplinary research and expert insights into new methods and processes for understanding modern technological tools and their applications as well as emerging theories and ethical controversies surrounding the field of information science Highlighting a wide range of topics such as natural language processing decision support systems and electronic government this book offers strategies for implementing smart devices and analytics into various professional disciplines The techniques discussed in this publication are ideal for IT professionals developers computer scientists practitioners managers policymakers engineers data analysts and programmers seeking to understand the latest developments within this field and who are looking to apply new tools and policies in their practice Additionally academicians researchers and students in fields that include but are not limited to software engineering cybersecurity information technology media and communications urban planning computer science healthcare economics environmental science data management and political science will benefit from the extensive knowledge compiled within this publication

**Domain-Specific Languages** Andrzej Wąsowski,Thorsten Berger,2023-02-01 This textbook describes the theory and the pragmatics of using and engineering high level software languages also known as modeling or domain specific languages DSLs for creating quality software This includes methods design patterns guidelines and testing practices for defining the syntax and the semantics of languages While remaining close to technology the book covers multiple paradigms and solutions avoiding a particular technological silo It unifies the modeling the object oriented and the functional programming perspectives on DSLs The book has 13 chapters Chapters 1 and 2 introduce and motivate DSLs Chapter 3 kicks off the DSL engineering lifecycle describing how to

systematically develop abstract syntax by analyzing a domain Chapter 4 addresses the concrete syntax including the systematic engineering of context free grammars Chapters 5 and 6 cover the static semantics with basic constraints as a starting point and type systems for advanced DSLs Chapters 7 Transformation 8 Interpretation and 9 Generation describe different paradigms for designing and implementing the dynamic semantics while covering testing and other kinds of quality assurance Chapter 10 is devoted to internal DSLs Chapters 11 to 13 show the application of DSLs and engage with simpler alternatives to DSLs in a highly distinguished domain software variability These chapters introduce the underlying notions of software product lines and feature modeling The book has been developed based on courses on model driven software engineering MDSE and DSLs held by the authors It aims at senior undergraduate and junior graduate students in computer science or software engineering Since it includes examples and lessons from industrial and open source projects as well as from industrial research practitioners will also find it a useful reference The numerous examples include code in Scala 3 ATL Alloy C F Groovy Java JavaScript Kotlin OCL Python QVT Ruby and Xtend The book contains as many as 277 exercises The associated code repository facilitates learning and using the examples in a course

### **Databases and Information Systems**

**X** Olegas Vasilecas, Gintautas Dzemyda, 2019-01-15 The importance of databases and information systems to the functioning of 21st century life is indisputable This book presents papers from the 13th International Baltic Conference on Databases and Information Systems held in Trakai Lithuania from 1 4 July 2018 Since the first of these events in 1994 the Baltic DB advanced database systems internet of things big data analysis cognitive computing and applications and case studies These results will contribute to the further development of this fast growing field and will be of interest to all those working with advanced information systems databases and related areas

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Lupeikiene, Olegas Vasilecas, Gintautas Dzemyda, 2018-08-14 This book constitutes the refereed proceedings of the 13th International Baltic Conference on Databases and Information Systems DB IS 2018 held in Trakai Lithuania in July 2018 The 24 revised papers presented were carefully reviewed and selected from 69 submissions The papers are centered around topics like information systems engineering enterprise information systems business process management knowledge representation ontology engineering systems security information systems applications database systems machine learning big data analysis big data processing cognitive computing

IEEE/ACM International Conference on Automated Software Engineering, 2005

### **Proceedings, ASE**, 2005

*Eclipse Distilled* David Carlson, 2005 A concise introduction to Eclipse for the productive programmer

*The British National Bibliography* Arthur James Wells, 2009

### **JAVA Developer's**

**Journal**, 2003

*Eclipse Modeling Project* Richard C. Gronback, 2009 the first end to end guide to Domain Specific

Language DSL and Model Driven Development MDD with Eclipse Shows software developers how to leverage the Eclipse open source platform to gain the state of the art productivity and quality benefits of DSLs and MDD Thoroughly covers the Eclipse Modeling Framework EMF As well as Eclipse projects covered in no other book including GMF and QVT Includes

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*Eclipse Modeling Project* Richard C. Gronback, 2009-03-06 Achieve Breakthrough Productivity and Quality with MDD and Eclipse Based DSLs Domain specific languages DSLs and model driven development MDD offer software engineers powerful new ways to improve productivity enhance quality and insulate systems from rapid technological change Now there s a pragmatic start to finish guide to creating DSLs and using MDD techniques with the powerful open source Eclipse platform In Eclipse Modeling Project Richard C Gronback illuminates both the principles and techniques software professionals need to master offering insights that will be invaluable to developers working with any tool or platform As coleader of the Eclipse Modeling Project Gronback is singularly well positioned to demonstrate DSLs and MDD at work in Eclipse Gronback systematically introduces each of the Eclipse technologies that can be used in DSL and MDD development Throughout he introduces key concepts and technologies in the context of a complete worked example and presents new best practices and never before published techniques He also covers Eclipse projects discussed in no other book including Query View Transformation QVT and the Graphical Modeling Framework GMF a project the author personally leads Eclipse Modeling Project gives software practitioners all the knowledge they need to explore the remarkable potential of DSLs and MDD and includes coverage of Why a model based approach enables the rapid customization of high quality solutions within the product line paradigm How the Eclipse Modeling Project s capabilities can be used to efficiently create new DSLs Powerful techniques for developing DSL abstract syntax graphical notation and textual syntax How to build Model to Model M2M and Model to Text M2T transformations including a powerful new M2M implementation of the Object Management Group s QVT Operational Mapping Language OML Efficiently packaging and deploying DSLs with Eclipse Complete

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