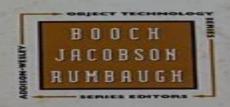
THE UNIFIED MODELING LANGUAGE USER GUIDE

GRADY BOOCH JAMES RUMBAUGH IVAR JACOBSON



The ultimate tutorial to the UML from the original designers



Uml User Guide

Jim Arlow, Ila Neustadt

Uml User Guide:

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Software Development ,2004 Real-time UML Bruce Powel Douglass,2000 Real time and embedded systems must make the most of very limited processor and memory sources and UML is an invaluable tool for achieving these goals Key topics include information on tradeoffs associated with each object design approach design patterns and identification strategies detailed appendix on OMG and more Building Web Applications with UML Jim Conallen,1999 Introduction and summary of web related technogies Web application basics Dynamic clients Beyond http and html Security The process Defining the architecture Requirements and use case Analysis Design Implementation Designing Software Product Lines with UML Hassan Gomaa,2005 Designing Software Product Lines with UML is well written informative and addresses a very important topic It is a valuable contribution to the literature in this area and offers practical guidance for software architects

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platform independent model that can then be mapped to a platform specific model Key topics include Software product line engineering process which extends the Unified Development Software Process to address software product lines Use case modeling including modeling the common and variable functionality of a product line Incorporating feature modeling into UML for modeling common optional and alternative product line features Static modeling including modeling the boundary of the product line and information intensive entity classes Dynamic modeling including using interaction modeling to address use case variability State machines for modeling state dependent variability Modeling class variability using inheritance and parameterization Software architectural patterns for product lines Component based distributed design using the new UML 2 0 capability for modeling components connectors ports and provided and required interfaces Detailed case studies giving a step by step solution to real world product line problems Designing Software Product Lines with UML is an invaluable resource for all designers and developers in this growing field The information technology and case studies presented here show how to harness the promise of software product lines and the practicality of the UML to take software design quality and efficiency to the next level An enhanced online index allows readers to quickly and easily search the entire text for specific topics UML and the Unified Process Jim Arlow, Ila Neustadt, 2002 1 What is UML 2 What is the Unified Process 3 The requirements workflow 4 Use case modeling 5 Advanced use case modeling 6 The analysis workflow 7 Objects and classes 8 Finding analysis classes 9 Relationships 10 Inheritance and polymorphism 11 Analysis packages 12 Use case realization 13 Advanced use case realization 14 The design workflow 15 Design classes 16 Refining analysis relationships 17 Interfaces and components 18 Use case realization design 19 Basic statecharts 20 Advanced statecharts 21 The implementation workflow 22 Components 23 Deployment Information Modelling and Knowledge Bases XII Hannu Jaakkola, Hannu Kangassalo, Eiji Kawaguchi, 2001

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