

Access Free The
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The Elements Of Uml 2 0 Style

*This book covers
all you need to
know to model and
design software
applications from
use cases to
software*

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architectures in UML and shows how to apply the COMET UML-based modeling and design method to real-world problems. The author describes architectural patterns for various architectures, such as broker,

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*discovery, and
transaction
patterns for
service-oriented
architectures, and
addresses software
quality attributes
including
maintainability,
modifiability,
testability,
traceability,
scalability,
reusability,*

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*performance,
availability, and
security. Complete
case studies
illustrate design
issues for different
software
architectures: a
banking system for
client/server
architecture, an
online shopping
system for service-
oriented*

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*architecture, an
emergency
monitoring system
for component-
based software
architecture, and
an automated
guided vehicle for
real-time software
architecture.
Organized as an
introduction
followed by several
short, self-*

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*contained
chapters, the book
is perfect for
senior
undergraduate or
graduate courses
in software
engineering and
design, and for
experienced
software engineers
wanting a quick
reference at each
stage of the*

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*analysis, design,
and development
of large-scale
software systems.
Describes Agile
Modeling Driven
Design (AMDD)
and Test-Driven
Design (TDD)
approaches,
database
refactoring,
database
encapsulation*

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*strategies, and
tools that support
evolutionary
techniques Agile
software
developers often
use object and
relational database
(RDB) technology
together and as a
result must
overcome the
impedance
mismatch The*

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author covers techniques for mapping objects to RDBs and for implementing concurrency control, referential integrity, shared business logic, security access control, reports, and XML An agile foundation describes

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*fundamental skills
that all agile
software
developers require,
particularly Agile
DBAs Includes
object modeling,
UML data
modeling, data
normalization,
class
normalization, and
how to deal with
legacy databases*

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Scott W. Ambler is author of Agile Modeling (0471202827), a contributing editor with Software Development (www.sdmagazine.com), and a featured speaker at software conferences worldwide

Gain the skills to

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*effectively plan
software
applications
and systems using
the latest version
of UML UML 2
represents a
significant update
to the UML
specification, from
providing more
robust mechanisms
for modeling
workflow*

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and actions to making the modeling language more executable. Now in its second edition, this bestselling book provides you with all the tools you'll need for effective modeling with UML 2. The authors get you up to speed by

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*presenting an
overview of UML
and its
main features.
You'll then learn
how to apply UML
to produce
effective diagrams
as you progress
through more
advanced topics
such as use-case
diagrams, classes
and their*

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*relationships,
dynamic diagrams,
system
architecture, and
extending UML.
The authors
take you through
the process of
modeling with
UML so that you
can successfully
deliver a software
product or
information manag*

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*elements system. With the help of numerous examples and an extensive case study, this book teaches you how to: * Organize, describe, assess, test, and realize use cases * Gain substantial information about a system by*

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*using classes * Utilize activity diagrams, state machines, and interaction diagrams to handle common issues * Extend UML features for specific environment or domains * Use UML as part of a Model Driven Architecture*

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*initiative * Apply
an effective
process for using
UML The CD-ROM
contains all of the
UML models and
Java?TM code for
acomplete
application,
Java?TM 2
Platform, Standard
Edition,
Version 1.4.1, and
links to the Web*

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*sites for vendors of
UML 2 tools.*

*"This book
manages to convey
the practical use of
UML 2 in clear and
understandable
terms with many
examples and
guidelines. Even
for people not
working with the
Unified Process,
the book is still of*

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great use. UML 2 and the Unified Process, Second Edition is a must-read for every UML 2 beginner and a helpful guide and reference for the experienced practitioner."

*--Roland
Leibundgut,
Technical Director,
Zuehlke*

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Engineering Ltd.

"This book is a good starting point for organizations and individuals who are adopting UP and need to understand how to provide visualization of the different aspects needed to satisfy it. " --Eric Naiburg,
Market Manager,

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*Desktop Products,
IBM Rational
Software This
thoroughly revised
edition provides an
indispensable and
practical guide to
the complex
process of object-
oriented analysis
and design using
UML 2. It
describes how the
process of OO*

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analysis and design fits into the software development lifecycle as defined by the Unified Process (UP). UML 2 and the Unified Process contains a wealth of practical, powerful, and useful techniques that you can apply immediately. As

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you progress through the text, you will learn OO analysis and design techniques, UML syntax and semantics, and the relevant aspects of the UP. The book provides you with an accurate and succinct summary of both UML and UP from the point

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*of view of the OO
analyst and
designer. This
book provides
Chapter roadmaps,
detailed diagrams,
and margin notes
allowing you to
focus on your
needs Outline
summaries for
each chapter,
making it ideal for
revision, and a*

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*comprehensive
index that can be
used as a
reference New to
this edition:*

*Completely revised
and updated for
UML 2 syntax Easy
to understand
explanations of the
new UML 2
semantics More
real-world
examples A new*

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*section on the
Object Constraint
Language (OCL)
Introductory
material on the
OMG's Model
Driven
Architecture
(MDA) The
accompanying
website provides A
complete example
of a simple e-
commerce system*

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*Open source tools
for requirements
engineering and
use case modeling
Industrial-strength
UML course
materials based on
the book*

*This book
constitutes the
refereed joint
proceedings of five
international
workshops held in*

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*conjunction with
the 24th
International
Conference on
Conceptual
Modeling, ER
2005, in
Klagenfurt,
Austria, in October
2005. The 40
revised full papers
presented together
with the abstracts
of seven tutorials*

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were carefully reviewed and selected from 102 submissions. The papers are organized in topical sections on best practices of UML, experience reports and new applications, model evaluation and requirements modeling,

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*metamodeling and
model driven
development,
positions in
engineering agent
oriented systems,
agent oriented
methodologies and
conceptual
modeling, agent
communication
and coordination,
geographic
information*

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*systems, spatial
and spatio-
temporal data
representation,
spatial relations,
spatial queries,
analysis and data
mining, data
modeling and
visualisation,
conceptual
modeling
approaches for e-
business,*

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*information system
models quality,
and quality driven
processes.*

*UML 2 and the
Unified Process
Preparing for the
OMG Certified
UML 2.5
Professional 2
Foundation Exam
Language,
Concepts, Methods
SysML Distilled*

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*Agile Database
Techniques
A Simple Process
for Specifying
Component-based
Software
Architectures and
Functions*

***UML, the
Universal
Modeling
Language, was
the first
programming***

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***language
designed to
fulfill the
requirement for
"universality."
However, it is a
software-specific
language, and
does not support
the needs of
engineers
designing from
the broader
systems-based***

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perspective.

*Therefore, SysML
was created. It
has been steadily
gaining
popularity, and
many companies,
especially in the
heavily-regulated
Defense,
Automotive,
Aerospace,
Medical Device
and Telecomms*

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industries, are already using SysML, or are planning to switch over to it in the near future. However, little information is currently available on the market regarding SysML. Its use is just on the crest of becoming a

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**widespread
phenomenon,
and so thousands
of software
engineers are
now beginning to
look for training
and resources.
This book will
serve as the one-
stop, definitive
guide that
provide an
introduction to**

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***SysML, and
instruction on
how to
implement it, for
all these new
users. *SysML is
the latest
emerging
programming lan
guage--250,000
estimated
software systems
engineers are
using it in the US***

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***alone! *The first
available book on
SysML in English
*Insider
information! The
author is a
member of the
SysML working
group and has
written sections
of the
specification
*Special focus
comparing***

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***SysML and UML,
and explaining
how both can
work together
Introduces the
Unified Modeling
Language,
explains the
fundamentals of
modeling
elements,
structures, and
the behaviors of
object-oriented***

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***software systems,
and offers real-
world examples.
The essentials of
UML 2.0 and how
to use it in one
concise volume.
Uses friendly, eas-
y-to-understand
For Dummies
style to
help readers
learn to model
systems with the***

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***latest version of
UML,
the modeling
language used by
companies
throughout the
world to
develop blueprint
s for complex
computer
systems Guides
programmers,
architects, and
business analysts***

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***through applying
UML to design
large, complex
enterprise
applications
that enable
scalability,
security, and
robust execution
Illustrates
concepts with
mini-cases from
different
business domains***

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***and provides
practical advice
and examples
Covers critical
topics for users
of UML,
including
object modeling,
case modeling,
advanced
dynamic and
functional
modeling, and
component and***

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**deployment
modeling**

***The UML was
conceived and
first
implemented as
a language for
describing the
design of object-
oriented
programs. Its
widespread
adoption and
inherent***

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***flexibility has,
inevitably, led to
its use in other
areas, including
the design of
component-based
systems, While it
is not a perfect
fit for component-
based
development,
this book
describes how
best to use UML***

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**1.3 in the
specification and
design of
medium to large
systems that
utilize server-
side component
technologies.**

OCUP 2

**Certification
Guide**

**Fast Track UML
2.0**

The Application

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***Developer's
Guide to Object-
Orientation and
the UML***

***UML 2.0 in a
Nutshell***

***Modeling with
UML***

***Model-Driven
Domain Analysis
and Software
Development:
Architectures
and Functions***

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Agile Model- Driven Development with UML 2.0

Market_Desc: .

Programmers who wish to understand the work products of analysis and design .

Designers who want a formal tool for design . Analysts who want to learn how to

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communicate more
effectively with
business and technical
team members and
clients · Project
Leads And Managers
who want to
understand the tools
available to facilitate
quality
communication and
specification of
software

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requirements .

Maintenance Teams
and Managers who
wish to improve the
overall quality and
timeliness of their
product support.

Special Features: .

Up-to-date coverage
including both the 1.4
and 2.0 UML
specifications. Focuses
on executable UML

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meaning the UML diagrams are the code, rather than viewing the diagrams as a necessary evil to complete before coding . Covers testing of UML diagrams, rather than leaving all testing until the application is coded About The Book: The UML is an

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industry standard specification for modeling, visualizing, and documenting software projects. You can think of UML as the equivalent of blueprints in a manufacturing metaphor. By applying UML, developers can decrease the high-

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probability of failure
that plagues large
application
development projects
while improving
quality. Extending the
construction
metaphor, the
growing concept of
executable UML is
analogous to compute
r-aided-manufacturing
settings where the

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blueprint for a
product actually drives
the machines

Learn UML, the
Unified Modeling
Language, to create
diagrams describing
the various aspects
and uses of your
application before you
start coding, to ensure
that you have
everything covered.

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Millions of programmers in all languages have found UML to be an invaluable asset to their craft. More than 50,000 previous readers have learned UML with Sams Teach Yourself UML in 24 Hours. Expert author Joe Schmuller takes you through 24

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step-by-step lessons
designed to ensure
your understanding of
UML diagrams and
syntax. This updated
edition includes the
new features of UML
2.0 designed to make
UML an even better
modeling tool for
modern object-
oriented and
component-based

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programming. The CD-ROM includes an electronic version of the book, and Poseidon for UML, Community Edition 2.2, a popular UML modeling tool you can use with the lessons in this book to create UML diagrams immediately.

Concise and easy-to-

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understand guidelines and standards for creating UML 2.0 diagrams.

"This book displays how to effectively map and respond to the real-world challenges and purposes which software must solve, covering domains such as mechatronic, embedded and high

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risk systems, where failure could cost human lives"--Provided by publisher.

"If you are a serious user of UML, there is no other book quite like this one. I have been involved with the UML specification process for some time, but I still found myself

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learning things while reading through this book-especially on the changes and new capabilities that have come with UML." -Ed Seidewitz, Chief Architect, IntelliData Technologies Corporation The latest version of the Unified Modeling Language-UML

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2.0-has increased its capabilities as the standard notation for modeling software-intensive systems. Like most standards documents, however, the official UML specification is difficult to read and navigate. In addition, UML 2.0 is far more complex than previous

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versions, making a thorough reference book more essential than ever. In this significantly updated and expanded edition of the definitive reference to the standard, James Rumbaugh, Ivar Jacobson, and Grady Booch-the UML's creators-clearly and

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completely describe UML concepts, including major revisions to sequence diagrams, activity models, state machines, components, internal structure of classes and components, and profiles. Whether you are capturing requirements,

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developing software architectures, designing implementations, or trying to understand existing systems, this is the book for you.

Highlights include:

Alphabetical dictionary of articles covering every UML concept Integrated summary of UML

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concepts by diagram
type Two-color
diagrams with
extensive annotations
in blue Thorough
coverage of both
semantics and
notation, separated in
each article for easy
reference Further
explanations of
concepts whose
meaning or purpose is

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obscure in the original
specifications

Discussion sections
offering usage advice
and additional insight
into tricky concepts

Notation summary,
with references to
individual articles An
enhanced online index
available on the book's
web site allowing
readers to quickly and

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easily search the entire
text for specific topics

The result is an
indispensable resource
for anyone who needs
to understand the
inner workings of the
industry standard
modeling language.

**APPLYING UML &
PATTERNS 3RD
EDITION**

UML 2 Toolkit

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Effective Strategies for
the Agile Software
Developer

A Brief Guide to the
Standard Object

Modeling Language

The Art of Modeling
Software Systems

Demonstrated

through Worked

Examples and

Solutions

An Improved

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Approach for Domain
Modeling and
Software

Development

UML Components

Larman covers

how to investigate
requirements,

create solutions

and then translate
designs into code,

showing

developers how to

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make practical use
of the most
significant recent
developments. A
summary of UML
notation is
included
Reed's guide
includes detailed
coverage of
architecting VB
enterprise
applications and

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features working
examples and step-
by-step
instructions for
planning and
development of an
order entry
system, detailing
do's and don't's
for analysis,
design and
construction. CD-
ROM contains

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several templates for applying UML, as well as complete Rational Rose models for the sample applications.

Object-Oriented Design with UML and Java provides an integrated introduction to object-oriented

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design with the Unified Modelling Language (UML) and the Java programming language. The book demonstrates how Java applications, no matter how small, can benefit from some design during their

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construction. Fully road-tested by students on the authors' own courses, the book shows how these complementary technologies can be used effectively to create quality software. It requires no prior knowledge of

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object orientation, though readers must have some experience of Java or other high level programming language. This book covers object technology; object-oriented analysis and design; and implementation of objects with Java.

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It includes two case studies dealing with library applications. The UML has been incorporated into a graphical design tool called ROME, which can be downloaded from the book's website. This object modelling

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environment allows readers to prepare and edit various UML diagrams. ROME can be used alongside a Java compiler to generate Java code from a UML class diagram then compile and run the resulting

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application for hands-on learning. This text would be a valuable resource for undergraduate students taking courses on O-O analysis and design, O-O modelling, Java programming, and modelling with

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UML. * Integrates design and implementation, using Java and UML * Includes case studies and exercises *

Bridges the gap between programming texts and high level analysis books on design

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* Examples are easy to understand; diagrams aren't overly busy. *

Written in user-friendly style

author is known for. *

Condensed, distilled presentation of the UML Superstructure

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document will get you up to speed with UML 2.0.

This book presents a variant of UML that is especially suitable for agile development of high-quality software. It adjusts the language UML profile, called

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UML/P, for optimal assistance for the design, implementation, and agile evolution to facilitate its use especially in agile, yet model based development methods for data intensive or control driven systems. After a

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general

introduction to

UML and the

choices made in

the development

of UML/P in

Chapter 1, Chapter

2 includes a

definition of the

language elements

of class diagrams

and their forms of

use as views and

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representations.

Next, Chapter 3 introduces the design and semantic facets of the Object Constraint Language (OCL), which is conceptually improved and syntactically adjusted to Java

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for better comfort.
Subsequently,
Chapter 4
introduces object
diagrams as an
independent,
exemplary
notation in UML/P,
and Chapter 5
offers a detailed
introduction to
UML/P Statecharts.
Lastly, Chapter 6

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presents a simplified form of sequence diagrams for exemplary descriptions of object interactions. For completeness, appendixes A–C describe the full syntax of UML/P, and appendix D

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explains a sample application from the E-commerce domain, which is used in all chapters. This book is ideal for introductory courses for students and practitioners alike. Learn UML in 1 Day: 11th Book by

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Best-Selling
Author Krishna
Rungta. Learn
UML Updated For
2019
Fundamental and
Intermediate
Exams
Elements of
Reusable Object-
Oriented Software
Perspectives in
Conceptual

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Modeling

UML 2 Bible

UML Distilled

Offers

comprehensive

coverage of all major

modeling viewpoints

Provides details of

collaboration and

class diagrams for

filling in the design-

level models

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For nearly ten years, the Unified Modeling Language (UML) has been the industry standard for visualizing, specifying, constructing, and documenting the artifacts of a software-intensive system. As the de facto standard modeling language, the UML facilitates

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communication and reduces confusion among project stakeholders. The recent standardization of UML 2.0 has further extended the language's scope and viability. Its inherent expressiveness allows users to model everything from enterprise

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information systems and distributed Web-based applications to real-time embedded systems. In this eagerly anticipated revision of the best-selling and definitive guide to the use of the UML, the creators of the language provide a tutorial to its core aspects in a two-color format

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designed to facilitate learning. Starting with an overview of the UML, the book explains the language gradually by introducing a few concepts and notations in each chapter. It also illustrates the application of the UML to complex modeling problems

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across a variety of application domains. The in-depth coverage and example-driven approach that made the first edition of The Unified Modeling Language User Guide an indispensable resource remain unchanged. However, content has been thoroughly updated

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to reflect changes to notation and usage required by UML 2.0. Highlights include: A new chapter on components and internal structure, including significant new capabilities for building encapsulated designs New details and updated coverage of provided and

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*required interfaces,
collaborations, and
UML profiles
Additions and
changes to
discussions of
sequence diagrams,
activity diagrams,
and more Coverage
of many other
changes introduced
by the UML 2.0
specification With
this essential guide,*

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you will quickly get up to speed on the latest features of the industry standard modeling language and be able to apply them to your next software project.

The popular Unified Modeling Language (UML) is both a language and notation developed by the Object

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Management Group (OMG) used to design and create specifications for software systems. With the recent release of version 2.0 UML, the OMG has started the OMG-Certified UML Professional Program to provide an objective measure of UML knowledge. As a

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certified UML professional a developer has an important credential to present to employers and clients. Certification also benefits companies looking for skilled UML practitioners by giving them a basis for making hiring and promotion decisions.

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UML 2 Certification Guide is the only official study guide to passing the new UML exams. This book systematically covers all of the topics covered in the exams, and has been carefully reviewed by the OMG. The book begins by assuming only a basic knowledge of UML

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and then progresses far enough to allow a reader to pass both the fundamental and the intermediate level exams. Along the way the book also covers topics that are not in introductory books on UML but that are necessary to pass the exams. Tim Weilkiens is considered one of

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*the top ten experts
on UML, and both
authors have
extensive experience
training developers
to successfully take
the exams. The
official certification
resource Assumes a
basic knowledge of
UML so that you can
focus immediately on
the exams Written by
two authors known*

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*for their skill as
trainers, consultants,
and developers
Developed
systematically to
enable you to master
all exam
topics—without
exception Covers the
use of UML for
applications, as
required by the
exams, both inside
and outside of the*

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*realm of software
development*

*Includes a practice
exam, glossary, list of
books, and website
information*

*Software -- Software
Engineering.*

*The acclaimed
beginner's book on
object technology
now presents UML
2.0, Agile Modeling,
and the latest in*

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*object development
techniques.*

UML 2. 0 in Action

Learning UML

Sams Teach Yourself

UML in 24 Hours

Using UML

*UML 2 Semantics and
Applications*

*Software Engineering
with Objects and*

Components

Topological UML

Modeling

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With its clear introduction to the Unified Modeling Language (UML) 2.0, this tutorial offers a solid understanding of each topic, covering foundational concepts of object-orientation and an introduction to each

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*of the UML diagram
types.*

*A detailed and
practical book and
eBook walk-through
showing how to
apply UML to real
world development
projects*

*This textbook mainly
addresses beginners
and readers with a*

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*basic knowledge of
object-oriented
programming
languages like Java
or C#, but with little
or no modeling or
software engineering
experience – thus
reflecting the
majority of students
in introductory
courses at*

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universities. Using UML, it introduces basic modeling concepts in a highly precise manner, while refraining from the interpretation of rare special cases. After a brief explanation of why modeling is an

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*indispensable part of
software*

*development, the
authors introduce
the individual*

*diagram types of
UML (the class and
object diagram, the
sequence diagram,
the state machine
diagram, the activity
diagram, and the use*

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case diagram), as well as their interrelationships, in a step-by-step manner. The topics covered include not only the syntax and the semantics of the individual language elements, but also pragmatic aspects, i.e., how to use them

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wisely at various stages in the software development process. To this end, the work is complemented with examples that were carefully selected for their educational and illustrative value. Overall, the

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*book provides a
solid foundation and
deeper
understanding of the
most important
object-oriented
modeling concepts
and their application
in software
development. An
additional website
offers a complete set*

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*of slides to aid in
teaching the contents
of the book,
exercises and further
e-learning material.*

*The Systems
Modeling Language
(SysML) extends
UML with powerful
systems engineering
capabilities for
modeling a wider*

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*spectrum of systems
and capturing all
aspects of a system's
design. SysML
Distilled is the first
clear, concise guide
for everyone who
wants to start
creating effective
SysML models.
(Drawing on his
pioneering*

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experience at

Lockheed Martin

and NASA, Lenny

Delligatti

illuminates SysML's

core components

and provides

practical advice to

help you create good

models and good

designs. Delligatti

begins with an easy-

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*to-understand
overview of Model-
Based Systems
Engineering (MBSE)
and an explanation
of how SysML
enables effective
system specification,
analysis, design,
optimization,
verification, and
validation. Next, he*

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*shows how to use all
nine types of SysML
diagrams, even if
you have no
previous experience
with modeling
languages. A case
study running
through the text
demonstrates the use
of SysML in
modeling a complex,*

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*real-world
sociotechnical
system. Modeled
after Martin
Fowler's classic
UML Distilled,
Delligatti's
indispensable guide
quickly teaches you
what you need to
know to get started
and helps you*

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*deepen your
knowledge
incrementally as the
need arises. Like
SysML itself, the
book is method
independent and is
designed to support
whatever processes,
procedures, and
tools you already
use. Coverage*

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*Includes Why SysML
was created and the
business case for
using it Quickly
putting SysML to
practical use What
to know before you
start a SysML
modeling project
Essential concepts
that apply to all
SysML diagrams*

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SysML diagram

elements and

relationships

Diagramming block

definitions, internal

structures, use cases,

activities,

interactions, state

machines,

constraints,

requirements, and

packages Using

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allocations to define mappings among elements across a model SysML notation tables, version changes, and sources for more information

A coherent and integrated account of the leading UML 2 semantics work

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*and the practical
applications of UML
semantics*

*development With
contributions from
leading experts in
the field, the book
begins with an
introduction to UML
and goes on to offer
in-depth and up-to-
date coverage of:*

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*The role of
semantics*

*Considerations and
rationale for a UML
system model*

*Definition of the
UML system model*

*UML descriptive
semantics Axiomatic*

semantics of UML

class diagrams The

object constraint

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*language Axiomatic
semantics of state
machines A
coalgebraic
semantic framework
for reasoning about
interaction designs
Semantics of activity
diagrams
Verification of UML
models State
invariants Model*

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transformation

specification and

verification

Additionally, readers

are provided with

expert guidance on

how to resolve

semantic problems

and a section on

applications of UML

semantics with

model analysis.

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*UML 2 Semantics
and Applications is
an ideal resource for
researchers and tool-
builders working in
UML, among others.
It is also an
excellent textbook
for postgraduate
teaching and
research.*

A Brief Guide to the

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*Systems Modeling
Language*

*The Elements of
UML(TM) 2.0 Style*

*Object-Oriented
Design with UML
and Java*

*Modeling, Analysis,
Design*

*The Object Primer
UML in Practice*

Learning UML 2.0

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Topological UML
Modeling: An
Improved Approach
for Domain Modeling
and Software
Development presents
a specification for
Topological UML®
that combines the
formalism of the
Topological
Functioning Model
(TFM) mathematical

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topology with a specified software analysis and design method. The analysis of problem domain and design of desired solutions within software development processes has a major impact on the achieved result □ developed software. While there are many

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tools and different techniques to create detailed specifications of the solution, the proper analysis of problem domain functioning is ignored or covered insufficiently. The design of object-oriented software has been led for many years by the Unified

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Modeling Language (UML®), an approved industry standard modeling notation for visualizing, specifying, constructing, and documenting the artifacts of a software-intensive system, and this comprehensive book shines new light on the many advances

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in the field. Presents
an approach to
formally define,
analyze, and verify
functionality of
existing processes and
desired processes to
track incomplete or
incorrect functional
requirements
Describes the path
from functional and
nonfunctional

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requirements
specification to
software design with
step-by-step creation
and transformation of
diagrams and models
with very early
capturing of security
requirements for
software systems.
Defines all modeling
constructs as
extensions to UML®,

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thus creating a new
UML® profile which
can be implemented in
existing UML®
modeling tools and
toolsets

This new book is the
definitive primer for
UML, and starts with
the foundational
concepts of object-
orientation in order to
provide the proper

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context for explaining
UML.

OCUP 2 Certification
Guide: Preparing for
the OMG Certified
UML 2.5 Professional
2 Foundation Exam
both teaches UML®
2.5 and prepares
candidates to become
certified. UML®
(Unified Modeling
Language) is the most

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popular graphical language used by software analysts, designers, and developers to model, visualize, communicate, test, and document systems under development. UML® 2.5 has recently been released, and with it a new certification program

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for practitioners to enhance their current or future career opportunities. There are three exam levels: Foundation, Intermediate, and Advanced. The exam covered in this book, Foundation, is a prerequisite for the higher levels. Author Michael Jesse

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Chonoles is a lead participant in the current OCUP 2 program—not only in writing and reviewing all the questions, but also in designing the goals of the program. This book distills his experience in modeling, mentoring, and training. Because UML® is a

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sophisticated
language, with 13
diagram types,
capable of modeling
any type of modern
software system, it
takes users some time
to become proficient.
This effective resource
will explain the
material in the
Foundation exam and
includes many

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practice questions for the candidate, including sample problems similar to those found in the exam, and detailed explanations of why correct answers are correct and why wrong answers are wrong. Written to prepare candidates for the OCUP 2

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Foundation level
exam while they learn
UML® Illustrated
with UML® diagrams
to clarify every
concept and technique
Offers hints for
studying and test-
taking based on the
specific nature and
structure of the
Foundation Level
exam Includes

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practice exam
material, sample
questions and
exercises, warnings,
tips, and points to
remember throughout
For all developers
who create models
using the Unified
Modeling Language
(UML) 2.x The
Elements of UML™
2.0 Style sets the rules

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for style that will improve your productivity - especially in teams, where understandability and consistency are critical. Coming from renowned UML expert Scott Ambler, the book furnishes a set of rules for modelling in the UML

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and describes a collection of standards and guidelines for creating effective UML diagrams that will be concise and easy to understand. It provides conventions for:

- Class diagrams;
- Timing Diagrams;
- Use case diagrams;
- Composite Structure Diagrams;
- Sequence

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diagrams; Interaction
Overview Diagrams;
Activity diagrams;
Object diagrams; State
machine diagrams;
Package diagrams;
Communication
diagrams; Deployment
diagrams and
Component diagrams.
The Elements of
UML™ 2.0 Style
sets the rules for style

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that will improve your productivity.

More than 300,000 developers have benefited from past editions of UML Distilled . This third edition is the best resource for quick, no-nonsense insights into understanding and using UML 2.0 and prior versions of the

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UML. Some readers will want to quickly get up to speed with the UML 2.0 and learn the essentials of the UML. Others will use this book as a handy, quick reference to the most common parts of the UML. The author delivers on both of these promises in a short, concise, and

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focused presentation.

This book describes all the major UML diagram types, what they're used for, and the basic notation involved in creating and deciphering them.

These diagrams include class, sequence, object, package, deployment, use case, state

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machine, activity,
communication,
composite structure,
component,
interaction overview,
and timing diagrams.
The examples are
clear and the
explanations cut to the
fundamental design
logic. Includes a quick
reference to the most
useful parts of the

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UML notation and a useful summary of diagram types that were added to the UML 2.0. If you are like most developers, you don't have time to keep up with all the new innovations in software engineering. This new edition of Fowler's classic work gets you acquainted

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with some of the best thinking about efficient object-oriented software design using the UML--in a convenient format that will be essential to anyone who designs software professionally.

The Elements of
UML™ 2.0 Style
ER 2005 Workshop

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AOIS, BP-UML,
CoMoGIS, ECOMO,
and QoIS, Klagenfurt,
Austria, October
24-28, 2005,
Proceedings
Software Modeling
and Design
UML 2 For Dummies
Practical Object-
Oriented Analysis and
Design

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Object-Oriented
Modeling
UML, Use Cases,
Patterns, and Software
Architectures

The Elements of
UML(TM) 2.0
StyleCambridge
University Press
Object-oriented
analysis and
design (OOAD)
has over the

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years, become a vast field, encompassing such diverse topics as design process and principles, documentation tools, refactoring, and design and architectural patterns. For most students

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the learning
experience is
incomplete
without
implementation.

This new
textbook
provides a
comprehensive
introduction to
OOAD. The
salient points
of its coverage
are: • A sound

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footing on
object-oriented
concepts such as
classes,
objects,
interfaces,
inheritance,
polymorphism,
dynamic linking,
etc. • A good
introduction to
the stage of
requirements
analysis. • Use

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of UML to document user requirements and design. • An extensive treatment of the design process. • Coverage of implementation issues. • Appropriate use of design and architectural patterns. •

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Introduction to the art and craft of refactoring. • Pointers to resources that further the reader's knowledge. All the main case-studies used for this book have been implemented by the authors

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using Java. The text is liberally peppered with snippets of code, which are short and fairly self-explanatory and easy to read.

Familiarity with a Java-like syntax and a broad

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understanding of the structure of Java would be helpful in using the book to its full potential.

UML stands for Unified Modeling Language used for creating object-oriented, meaningful documentation models for any

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software system present. It provides us a way to develop rich models that describe the working of any software/hardware systems. UML serves a great way of creating professional documentation which is a

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necessary part
of any project
development.

Here is what is
covered in the
book – Chapter

1: UML Diagrams:
Versions, Types,
History, Tools,

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Complete History
3.UML Versions 4

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5.Conceptual
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5. Diagrams

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Generalization,

Realization

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3. Generalization

4. Realization

5. Composition

6. Aggregation

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- 1.Association
 - 2.Composition
 - 3.Aggregation
 - 4.Association
vs. Aggregation
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- Chapter 5: UML
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3. Benefits of
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4. Essential
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5. Aggregation
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6. Abstract
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4.Purpose of an
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5.Applications
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4.What is an artifact? 5.What is a node? 6.How to draw a deployment diagram? 7.Example of a Deployment diagram 8.When to use a deployment diagram? Click the BUY button now and download

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the book now to start learning UML. Learn it fast and learn it well. Pick up your copy today by clicking the BUY NOW button at the top of this page!

UML stands for Unified Modeling Language used for creating

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object-oriented,
meaningful
documentation
models for any
software system
present. It
provides us a
way to develop
rich models that
describe the
working of any s
oftware/hardware
systems. UML
serves a great

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way of creating professional documentation which is a necessary part of any project development.

Here is what is covered in the book - Chapter 1: UML Diagrams: Versions, Types, History, Tools, Examples What is

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UML? Why use

UML? UML

Versions

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Conceptual model

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Tutorial: Symbol

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10: Interaction,

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diagram
Deployment
Diagram Symbol
and notations
What is an
artifact? What
is a node? How
to draw a

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This comprehensive guide has been fully revised to cover UML 2.0, today's standard method for modelling software systems. Filled with concise information, it's been crafted to help

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IT professionals read, create, and understand system artefacts expressed using UML. Includes an example-rich tutorial for those who need familiarizing with the system. Design Patterns Uml 2. 0 Developing

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Applications
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Basic and UML
Object-Oriented
Analysis and
Design
The Unified
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Language User
Guide
UML Explained
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Hours

Scott Ambler, author

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***of Building Object
Applications that
Work, Process
Patterns, and More
Process Patterns,
has revised his
acclaimed first
book, The Object
Primer. Long prized
in its original edition
by both students
and professionals
as the best
introduction to***

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***object-oriented
technology, now
this book is
completely up-to-
date with new
material in every
chapter. There are
also new chapters
on good OO
programming
techniques and OO
software testing. All
modeling notation
has been rewritten***

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in UML notation.

Review questions at the end of each chapter allow readers to test their newly acquired knowledge. In addition, the author takes time to reflect on the lessons learned over the past few years by discussing the proven benefits and

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professional or
student seeking an
introduction to the
concepts and
terminology of
object technology.
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