



PEARSON

Second Edition

# COMPONENT SOFTWARE

Beyond Object-Oriented Programming



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Dominik Gruntz

Stephan Murer

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# Component Software Beyond Object Oriented Programming 2nd Edition

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## **Component Software Beyond Object Oriented Programming 2nd Edition:**

Component software Clemens Szyperski,1998 Index side 383 411      **Component Software: Beyond Object-Oriented Programming, 2/E** Szyperski,2003-09      **Component Software** Clemens Szyperski,1997 Component Software Beyond Object Oriented Programming explains the technical foundations of this evolving technology and its importance in the software market place It provides in depth discussion of both the technical and the business issues to be considered then moves on to suggest approaches for implementing component oriented software production and the organizational requirements for success The author draws on his own experience to offer tried and tested solutions to common problems and novel approaches to potential pitfalls Anyone responsible for developing software strategy evaluating new technologies buying or building software will find Clemens Szyperski's objective and market aware perspective of this new area invaluable Helpful Features Include a uniquely objective comparison of the industry front runners' products Sun's Java Beans Microsoft's DCOM and Active X the OMG's CORBA and IIOP a description of the emerging industry standards being developed by consortia such as the OMG and the OPEN Group studies of component oriented tools and languages using Java and Component Pascal as examples in depth discussion of the potential and challenges of component software c Clemens Szyperski 1998 0201178885B04062001      Business Component Factory Peter Herzum,Oliver Sims,2000-01-03 In this book Peter Herzum and Oliver Sims present a complete component based strategy the business component approach that applies and extends component thinking to all aspects of the software life cycle for enterprise systems The approach includes a conceptual framework that brings components into the world of scalable systems and outlines the different component granularities It also includes a methodology that goes beyond current object oriented practices to provide the concepts required to meet the real challenges of component based development Using their business component approach the authors then provide a blueprint for a business component factory a development capability that can produce software with the quality speed and flexibility needed to match changing business needs Sprinkled with guidelines tips and architectural patterns this book fully prepares you for the approaching component revolution Praise for Business Component Factory this book should be very useful for anyone considering the daunting task of adopting component software on an enterprise scale Clemens Szyperski Microsoft Research Author of the award winning book Component Software Beyond Object Oriented Programming Herzum and Sims do an admirable job of differentiating the different component concepts allowing this clearly written book to focus on the construction of business systems by non software practitioners out of business component parts developed separately and perhaps for a commodity component marketplace This is the future of software systems and this book is a practical giant step in that direction Richard Mark Soley PhD Chairman and CEO OMG Finally a book that takes you from component design all the way down to the middleware on which they are deployed It's an important contribution to the nascent server side component discipline written by practitioners for practitioners Robert Orfali Author of Client Server

Survival Guide Third Edition and Client Server Programming with Java and CORBA Second Edition both from Wiley

*Component-Based Software Testing with UML* Hans-Gerhard Gross,2005 Component based software development regards software construction in terms of conventional engineering disciplines where the assembly of systems from readily available prefabricated parts is the norm Because both component based systems themselves and the stakeholders in component based development projects are different from traditional software systems component based testing also needs to deviate from traditional software testing approaches Gross first describes the specific challenges related to component based testing like the lack of internal knowledge of a component or the usage of a component in diverse contexts He argues that only built in contract testing a test organization for component based applications founded on building test artifacts directly into components can prevent catastrophic failures like the one that caused the now famous ARIANE 5 crash in 1996 Since building testing into components has implications for component development built in contract testing is integrated with and made to complement a model driven development method Here UML models are used to derive the testing architecture for an application the testing interfaces and the component testers The method also provides a process and guidelines for modeling and developing these artifacts This book is the first comprehensive treatment of the intricacies of testing component based software systems With its strong modeling background it appeals to researchers and graduate students specializing in component based software engineering Professionals architecting and developing component based systems will profit from the UML based methodology and the implementation hints based on the XUnit and JUnit frameworks

*Forthcoming Books* Rose Arny,2003      **Multimedia Technologies** Mahbubur Rahman Syed,2008-01-01 This book offers an in depth explanation of multimedia technologies within their many specific application areas as well as presenting developing trends for the future Provided by publisher      *Proceedings* Luiz Bacellar,Kane H. Kim,Luigi Romano,Stefano Russo,2004      **Annales des télécommunications** ,2006      **ACM Transactions on Programming Languages and Systems** Association for Computing Machinery,1997      **Proceedings of the ACM SIGPLAN--SIGSOFT Workshop on Program Analysis for Software Tools and Engineering** ,1998      *Communicating Process Architectures ...* ,2005  
*ACM SIGPLAN notices* ,1991      **Proceedings** ,2000      *ACM Transactions on Information Systems* ,1998      **Journal of the Association for Computing Machinery** Association for Computing Machinery,1997 Covers all areas of computer science including artificial intelligence complexity of algorithms computational geometry computing in technology and the sciences computer architecture cryptology database systems networks and digital libraries data structures and analysis of algorithms database theory decisions uncertainty and computation distributed computing formal languages and complexity theory graph theory and combinatorial structures logic in computer science machine learning and computational learning theory numerical computation operations research parallel algorithms parallel computation programming languages and methodology and scientific computing      **Fundamental Approaches to Software Engineering** ,2003      **C++ Network**

**Programming** Douglas C. Schmidt, Stephen D. Huston, 2003 Writing high quality networked applications is difficult it s expensive complicated and error prone This book picks up where volume one left off and guides C programmers through using the Adaptive Communication Environment ACE the most complete toolkit available for networked programming

Software Development ,2002      Software Architecture for Product Families Mehdi Jazayeri, A. C. M. Ran, Frank van der Linden, 2000 Software development organizations are now discovering the efficiencies that can be achieved by architecting entire software product families together In Software Architecture for Product Families experts from one of the world s most advanced software domain engineering projects share in depth insights about the techniques that work and those that don t The book offers a solutions oriented case study approach covering the entire development lifecycle based on advanced work done by three of Europe s leading technology companies and their academic partners Discover the challenges that drive companies to consider architecting product families and the new problems they encounter in doing so Master concepts and terms that can be used to describe the architecture of a product family then learn how to assess that architecture and transform it into working applications The authors also present chapter length real world case studies of domain engineering projects at Nokia Philips and ABB

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web to separate the lanthanides from other elements occurring with them they are chemically combined with specific substances to form lanthanide compounds with low solubility oxalates and fluorides for example a process known as ion exchange is then used to separate the lanthanides from each other in this process a solution of the

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web dec 12 2019 here s a list of the 15 elements that are lanthanides which run from atomic number 57 lanthanum or Ln and 71 lutetium or Lu lanthanum symbol Ln atomic number 57 cerium symbol Ce atomic number 58 praseodymium symbol Pr atomic number 59 neodymium symbol Nd atomic number 60 promethium symbol Pm

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web jan 1 1997 the lanthanides comprise the largest naturally occurring group in the periodic table there are more than 100 minerals known to contain lanthanides but the only two of commercial importance are monazite and bastnaesite the chapter discusses the production of lanthanide elements by electrolysis of fused salts and by metallothermic reduction

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web the fifteen elements shown in table pageindex 1 from lanthanum La 4f 0 to lutetium Lu 4f 14 are lanthanoids Ln may be used as a general symbol for the lanthanoid elements although lanthanoids scandium Sc and yttrium Y are sometimes called rare earth elements they are relatively abundant in the earth s crust

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web nov 1 1998 production of lanthanides has shown a continuous increase in recent years 50 taking all these facts into

account it is reasonable to consider the development of corrosion protection methods using this family of compounds at first the lanthanide elements principally cerium were used in protection against corrosion at high

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web lanthanides metals peptides and proteins selectivity abstract the essential biological role of rare earth elements lay hidden until the discovery in 2011 that lanthanides are specifically incorporated into a bacterial methanol dehydrogenase

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web jan 1 2000 powell describes displacement chromatography and elution chromatography as the two principal methods for separating lanthanide cations by ion exchange chromatography in displacement chromatography the ions to be separated are first sorbed onto a column of the resin the analyte metals are eluted from the column

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web feb 4 2021 the lanthanides are located on the top row of the two rows of elements found below the main body of the periodic table placing the lanthanides and the actinides the row below the lanthanides below the other elements is just a matter of aesthetics the lanthanides belong to period 6 like cesium barium and hafnium