



Second Edition

COMPONENT SOFTWARE

Beyond Object-Oriented Programming



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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-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 **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 **Proceedings of the ACM SIGPLAN--SIGSOFT Workshop on Program Analysis for Software Tools and Engineering** ,1998 *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

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 **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 *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**

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