



Component Oriented Programming

Gary T. Leavens, Murali Sitaraman



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Component-oriented Programming Languages Peter Hans Fröhlich, 2003

An Introduction To Component-based Software Development Kung-kiu Lau, Simone Di Cola, 2017-06-29 The book provides a comprehensive coverage of the widely accepted desiderata of component based software development as well as the foundations that these desiderata necessitate Its unique focus is on component models the cornerstone of component based software development In addition it presents and analyses existing approaches according to these desiderata This compendium is an indispensable textbook for an advance undergraduate or postgraduate course unit Researchers will also find this volume an essential reference material

Component- Oriented Development and Assembly Piram Manickam, S. Sangeetha, S. V. Subrahmanya, 2013-12-04 This book supplies comprehensive coverage of the principles practice and paradigm of component oriented development and assembly The first part provides the conceptual foundation for component oriented software Part II focuses on the various standard Java component models and describes how to develop a component oriented system using these component models Part III covers the various aspects of the component oriented development paradigm The text focuses on component oriented software development from a technical concepts perspective designer s perspective programmer s perspective and manager s perspective

Programming .NET Components Juval Lowy, 2005-07-27 Programming NET Components second edition updated to cover NET 2 0 introduces the Microsoft NET Framework for building components on Windows platforms From its many lessons tips and guidelines readers will learn how to use the NET Framework to program reusable maintainable and robust components

Component-oriented Programming in Object-oriented Languages Peter H. Fröhlich, Michael Franz, 1999

Component-based Software Development Kung-Kiu Lau, 2004 Component based software development CBD is an emerging discipline that promises to take software engineering into a new era Building on the achievements of object oriented software construction CBD aims to deliver software engineering from a cottage industry into an industrial age for Information Technology wherein software can be assembled from components in the manner that hardware systems are

currently constructed from kits of parts This volume provides a survey of the current state of CBD as reflected by activities that have been taking place recently under the banner of CBD with a view to giving pointers to future trends The contributions report case studies self contained fixed term investigations with a finite set of clearly defined objectives and measurable outcomes on a sample of the myriad aspects of CBD The book includes chapters dealing with COTS commercial off the shelf components methodologies for CBD compositionality i e how to calculate or predict properties of a composite from those of its constituents component software testing and grid computing [Programming .NET Components](#) Juval Lowy,2005-07-27 Brilliantly compiled by author Juval Lowy Programming NET Components Second Edition is the consummate introduction to the Microsoft NET Framework the technology of choice for building components on Windows platforms From its many lessons tips and guidelines readers will learn how to use the NET Framework to program reusable maintainable and robust components Following in the footsteps of its best selling predecessor Programming NET Components Second Edition has been updated to cover NET 2 0 It remains one of the few practical books available on this topic This invaluable resource is targeted at anyone who develops complex or enterprise level applications with the NET platform an ever widening market In fact nearly two million Microsoft developers worldwide now work on such systems Programming NET Components Second Edition begins with a look at the fundamentals of component oriented programming and then progresses from there It takes the time to carefully examine how components can simplify and add flexibility to complex applications by allowing users to extend their capabilities Next the book introduces a variety of NET essentials as well as NET development techniques Within this discussion on component development a separate chapter is devoted to each critical development feature including asynchronous calls serialization remoting security and more All the while hazardous programming pitfalls are pointed out saving the reader from experiencing them the hard way A NET expert and noted authority on component oriented programming Lowy uses his unique access to Microsoft technical teams to the best possible advantage conveying detailed insider information in easy to grasp activity filled language This hands on approach is designed to allow individuals to learn by doing rather than just reading Indeed after digesting Programming NET Components Second Edition readers should be able to start developing NET components immediately Programming NET Components Second Edition is the consummate introduction to the Microsoft NET Framework the technology of choice for building components on Windows platforms From its many lessons tips and guidelines readers will learn how to use the NET Framework to program reusable maintainable and robust components Following in the footsteps of its best selling predecessor Programming NET Components Second Edition has been updated to cover NET 2 0 This invaluable resource is targeted at anyone who develops complex or enterprise level applications with the NET platform an ever widening market

Component Software Clemens Szyperski, Dominik Gruntz, Stephan Murer, 2002 With the advent of new enabling technologies the need for the information put forth in this new edition is greater than ever Component Software Second

Edition explains what the key software component technologies are how to use them properly and why they are important to a development organization Furthermore the author presents this material in terms of both the technical and business issues involved with the adoption of component based software engineering The book defines components and clarifies the key questions surrounding them demonstrating how components can be the key to successful software design and construction

Foundations of Component-Based Systems Gary T. Leavens, Murali Sitaraman, 2000-03-28 This collection of articles by well known experts was originally published in 2000 and is intended for researchers in computer science practitioners of formal methods and computer programmers working in safety critical applications or in the technology of component based systems The work brings together several elements of this area that were fast becoming the focus of much research and practice in computing The introduction by Clemens Szyperski gives a snapshot of research in the field About half the articles deal with theoretical frameworks models and systems of notation the rest of the book concentrates on case studies by researchers who have built prototype systems and present findings on architectures verification The emphasis is on advances in the technological infrastructure of component based systems how to design and specify reusable components and how to reason about verify and validate systems from components Thus the book shows how theory might move into practice

Component-based Software Development Kung-Kiu Lau, 2004 First book of its kind case studies in CBD Covers different kinds of components Covers different component models technologies Includes a wide scope of CBD topics Covers both theoretical and practical work Includes both formal and informal approaches Provides a snapshot of current concerns and pointers to future trends *Component Oriented Programming: Object-Oriented and Beyond* Hieu Vu, 2017 **The**

Development of Component-based Information Systems Sergio de Cesare, Mark Geoffrey Lycett, Robert Macredie, 2015-05-15 This work provides a comprehensive overview of research and practical issues relating to component based development information systems CBIS Spanning the organizational developmental and technical aspects of the subject the original research included here provides fresh insights into successful CBIS technology and application Part I covers component based development methodologies and system architectures Part II analyzes different aspects of managing component based development Part III investigates component based development versus commercial off the shelf products COTS including the selection and trading of COTS products **Component-based Software Development: Case Studies**

Kung-kiu Lau, 2004-03-09 Component based software development CBD is an emerging discipline that promises to take software engineering into a new era Building on the achievements of object oriented software construction CBD aims to deliver software engineering from a cottage industry into an industrial age for Information Technology wherein software can be assembled from components in the manner that hardware systems are currently constructed from kits of parts This volume provides a survey of the current state of CBD as reflected by activities that have been taking place recently under the banner of CBD with a view to giving pointers to future trends The contributions report case studies self contained fixed term

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Component-based Software Engineering George T. Heineman,William T. Council,2001 Component Based Software Engineering CBSE is the way to produce software fast This book presents the concepts in CBSE While detailing both the advantages and the limitations of CBSE it covers every aspect of component engineering from software engineering practices to the design of software component infrastructure technologies and system **Fifth International Workshop on Object-Oriented Real-Time Dependable Systems** ,2000 The 20 papers from the November 1999 workshop are arranged into seven topical areas software engineering run time support newly emerging issues real time distributed computing tools quality of service fault tolerance and other works in progress and protocols Some sample topics are steering o *Component-based Software Engineering* ,2005

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