

David C. Kung



# Object-Oriented Software Engineering

*An Agile  
Unified  
Methodology*

# Object Oriented Software Engineering David Kung

**Robert Binder**



## **Object Oriented Software Engineering David Kung :**

**Object-oriented Software Engineering** David C. Kung,2013-02 Presents a step by step methodology that integrates modeling and design UML patterns test driven development quality assurance configuration management and agile principles throughout the life cycle This book provides stimulating exercises that go far beyond the type of question that can be answered by simply copying portions of the text

**ISE Object-Oriented Software Engineering: An Agile Unified Methodology** Chen-Ho Kung,David Kung,2023 Computers are widely used in all sectors of our society performing a variety of functions with the application software running on them As a result the market for software engineers is booming The March 2006 issue of Money magazine ranked software engineer as number 1 of the 50 best jobs in the United States According to the Bureau of Labor Statistics BLS 2010 2020 projections the total number of jobs in application development software engineer and systems analyst positions is expected to increase from 520 800 to 664 500 27 6% and from 544 400 to 664 800 22 10% respectively To be able to perform the work required of an application development software engineer or systems analyst an education in software engineering is highly desired However according to the data released by BLS Earned Awards and Degrees by Field of Study 2005 2006 only 160 bachelor and 600 master s degrees in software engineering and 10 289 bachelor and 4 512 master s degrees in computer science were awarded in 2006 Thus there is a significant gap between the demand and supply especially for graduates with a software engineering degree

**Software Engineering** David C. Kung,2023 The new edition of Software engineering presents a step by step methodology that integrates Modeling and Design UML Patterns Test Driven Development Quality Assurance Configuration Management and Agile Principles throughout the life cycle The overall approach is casual and easy to follow with many practical examples that show the theory at work The author uses his experiences as well as real world stories to help the reader understand software design principles patterns and other software engineering concepts The book also provides stimulating exercises that go far beyond the type of question that can be answered by simply copying portions of the text

**Testing Object-oriented Systems** Robert Binder,2000 More than ever mission critical and business critical applications depend on object oriented OO software Testing techniques tailored to the unique challenges of OO technology are necessary to achieve high reliability and quality Testing Object Oriented Systems Models Patterns and Tools is an authoritative guide to designing and automating test suites for OO applications This comprehensive book explains why testing must be model based and provides in depth coverage of techniques to develop testable models from state machines combinational logic and the Unified Modeling Language UML It introduces the test design pattern and presents 37 patterns that explain how to design responsibility based test suites how to tailor integration and regression testing for OO code how to test reusable components and frameworks and how to develop highly effective test suites from use cases Effective testing must be automated and must leverage object technology The author describes how to design and code specification based assertions to offset testability losses due to

inheritance and polymorphism Fifteen micro patterns present oracle strategies practical solutions for one of the hardest problems in test design Seventeen design patterns explain how to automate your test suites with a coherent OO test harness framework The author provides thorough coverage of testing issues such as The bug hazards of OO programming and differences from testing procedural code How to design responsibility based tests for classes clusters and subsystems using class invariants interface data flow models hierarchic state machines class associations and scenario analysis How to support reuse by effective testing of abstract classes generic classes components and frameworks How to choose an integration strategy that supports iterative and incremental development How to achieve comprehensive system testing with testable use cases How to choose a regression test approach How to develop expected test results and evaluate the post test state of an object How to automate testing with assertions OO test drivers stubs and test frameworks Real world experience world class best practices and the latest research in object oriented testing are included Practical examples illustrate test design and test automation for Ada 95 C Eiffel Java Objective C and Smalltalk The UML is used throughout but the test design patterns apply to systems developed with any OO language or methodology 0201809389B04062001 **Software**

**Engineering** Chen-Ho Kung,2023 Computers are widely used in all sectors of our society performing a variety of functions with the application software running on them As a result the market for software engineers is booming The March 2006 issue of Money magazine ranked software engineer as number 1 of the 50 best jobs in the United States According to the Bureau of Labor Statistics BLS 2010 2020 projections the total number of jobs in application development software engineer and systems analyst positions is expected to increase from 520 800 to 664 500 27 6% and from 544 400 to 664 800 22 10% respectively To be able to perform the work required of an application development software engineer or systems analyst an education in software engineering is highly desired However according to the data released by BLS Earned Awards and Degrees by Field of Study 2005 2006 only 160 bachelor and 600 master s degrees in software engineering and 10 289 bachelor and 4 512 master s degrees in computer science were awarded in 2006 Thus there is a significant gap between the demand and supply especially for graduates with a software engineering degree [ECOOP 2001 - Object-Oriented](#)

[Programming](#) Jorgen Lindskov Knudsen,2001-05-30 This book constitutes the refereed proceedings of the 15th European Conference on Object Oriented Programming ECOOP 2001 held in Budapest Hungary in June 2001 The 18 revised full papers presented together with one invited paper were carefully reviewed and selected from 108 submissions The book is organized in topical sections on sharing and encapsulation type inference and static analysis language design implementation techniques reflection and concurrency and testing and design **Testing Object-Oriented Software** David C.

Kung,Chen-Ho Kung,Pei Hsia,Jerry Gao,1998-11-10 Object oriented programming increases software reusability extensibility interoperability and reliability Software testing is necessary to realize these benefits Software testing aims to uncover as many programming errors as possible at a minimum cost A major challenge to the software engineering community remains

how to reduce the cost and improve the quality of software testing The requirements for testing object oriented programs differ from those for testing conventional programs Testing Object Oriented Software illustrates these differences and discusses object oriented software testing problems focusing on the difficulties and challenges testers face The book provides a general framework for class and system level testing and examines object oriented design criteria and high testability metrics It offers object oriented testing techniques ideas and methods for unit testing and object oriented program integration testing strategy Readers are shown how they can drastically reduce regression test costs presented with steps for object oriented testing and introduced to object oriented test tools and systems In addition to software testing problems the text covers various test methods developers can use during the design phase to generate programs with good testability The book s intended audience includes object oriented program testers program developers software project managers and researchers working with object oriented testing

*Computational Science and Its Applications - ICCSA 2006* Marina L. Gavrilova,2006

**Application-specific Systems and Software Engineering & Technology** IEEE Computer Society,1999 This text looks at the design and development of application specific software It covers topics such as networking engineering software and systems engineering security issues multimedia and information systems software reliability issues and tools for software and systems

**Technology of Object Oriented Languages and Systems** ,1998 This text on the technology of object oriented languages and systems covers such topics as software development models language design and implementation concurrent objects object oriented applications distributed objects and agents and software development tools and environments

*Conceptual Modelling in Information Systems Engineering* John Krogstie,Andreas Lothe Opdahl,Sjaak Brinkkemper,2007-06-13 Conceptual modeling has always been one of the cornerstones for information systems engineering as it describes the general knowledge of the system in the so called conceptual schema Krogstie Opdahl and Brinkkemper compiled 20 contributions from renowned researchers covering all aspects of conceptual modeling on the occasion of Arne S lvberg s 67th birthday Many friends of this information systems modeling pioneer happily contributed their latest research results from fields like data modeling goal oriented modeling agent oriented modeling and process oriented modeling Overall the contributions reflect the most important developments and application areas of conceptual modeling in recent years and they also pinpoint trends in conceptual modeling for the next decade This wide selection corresponds to the broad spectrum of Arne s activities and long term responsibilities with the VLDB Endowment IFIP and ERCIM Arne was presented with this book at CAiSE 2007 when the event which he cofounded in 1989 returned to his hometown of Trondheim

**Technology of Object-oriented Languages and Systems : TOOLS 29** ,1999 The proceedings of the June 1999 conference contains brief outlines of the keynotes tutorials and workshops along with the 35 technical papers presented Numerous papers discuss components frameworks complete architectures and modeling Two key aspects of the Unified Modeling Language receive s

*Object Oriented Technologies*

Richard G. Gibson, 2000 A dozen articles seek to allay the trepidation of corporations that the editor says has been inhibiting the new approach to software development from entrenching itself and taking over from older technologies that are actually known to work None of the them discusses programming itself They walk through the systems development life cycle illustrate the benefits of reuse in object technology and what to do with legacy systems and discuss some of the complex issues involved

**International Symposium on Software Engineering for Parallel and Distributed Systems** Peter Croll, Hesham El-Rewini, 1999 Contains 22 papers from the May 1999 symposium The 12 regular papers discuss distributed object systems analysis testing and debugging validation of concurrent programs and applications and methods Among the titles are state based reproducible testing for CORBA applications channel dependenc

**OOIS'96** Dilipkumar Patel, Yuan Sun, Shushmaben Patel, 1997 This volume contains the papers presented at the third International Conference on Object Oriented Information systems OOIS 96 which was held at the South Bank University London 16 18 December 1996 The papers published in this volume highlight the contributions of leading researchers in the field who are working with Object Oriented technology theory and practice Among the topics covered are Object Modelling Programming Languages Distributed systems Inter operability Methodologies Object Databases Software development Tools and Techniques for Web Development

**Journal of Object-oriented Programming** , 2001

**27th Annual International Computer Software and Applications Conference** , 2003 In the COMPSAC tradition the proceedings spans a broad and diverse range of both technical and non technical topics from basic methodology and software process design to such practical concerns as liability risk and insurance issues

*Pattern Languages of Program Design* James O. Coplien, Douglas C. Schmidt, 1995 The first conference on Pattern Languages of Program Design PLoP was a watershed event that gave a public voice to the software design pattern movement Seventy software professionals from around the world worked together to capture and refine software experience that exemplifies the elusive quality called good design This volume is the result of that work a broad compendium of this new genre of software literature Patterns are a literary form that take inspiration from literate programming from a design movement of the same name in contemporary architecture and from the practices common to the ageless literature of any culture The goal of pattern literature is to help programmers resolve the common difficult problems encountered in design and programming Spanning disciplines as broad as client server programming distributed processing organizational design software reuse and human interface design this volume encodes design expertise that too often remains locked in the minds of expert architects By capturing these expert practices as problem solution pairs supported with a discussion of the forces that shape alternative solution choices and rationales that clarify the architects intents these patterns convey the essence of great software designs 0201607344B04062001

Proceedings , 1997

Proceedings International Computer Software and Applications Conference, 1999

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