



OBJECT-ORIENTED

SOFTWARE CONSTRUCTION

SECOND EDITION

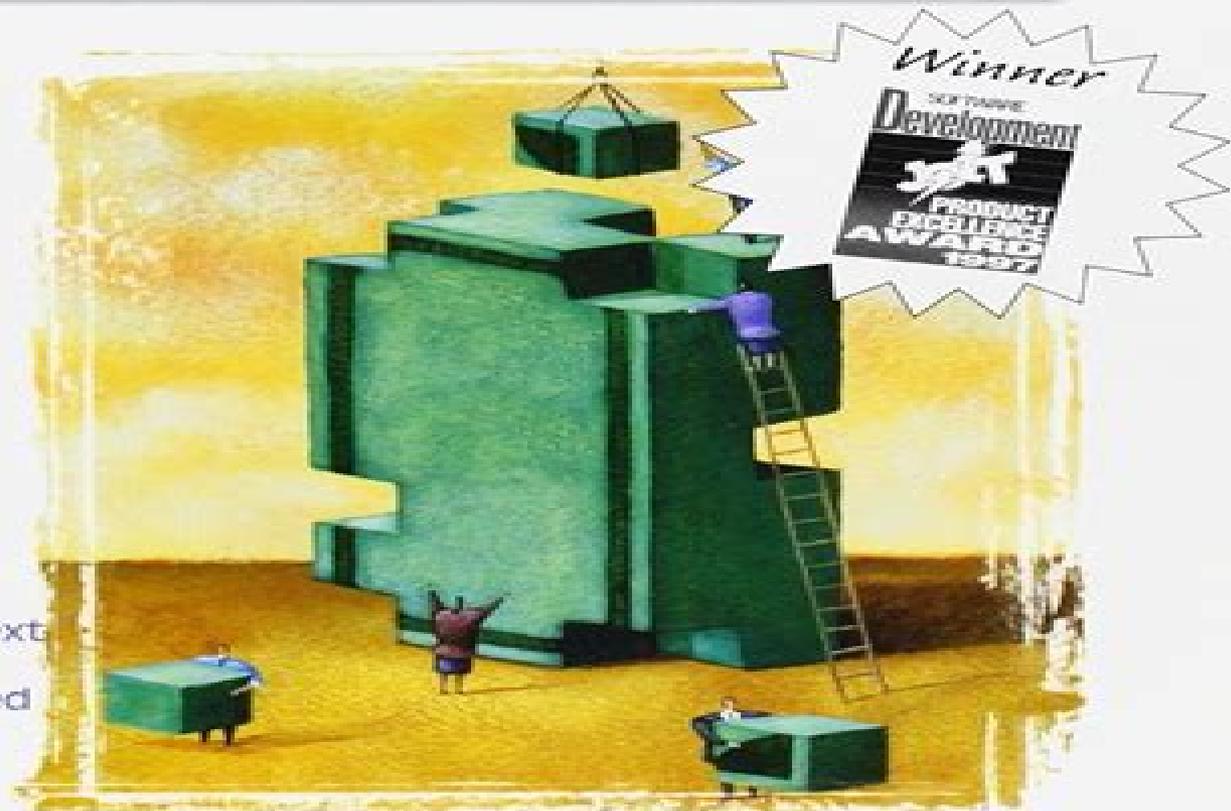


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Object-oriented Software Construction Bertrand Meyer,1997 This volume aims to study how practicing software developers in industrial as well as academic environments can use object technology to improve the quality of the software they produce It includes topics on concurrency and Internet programming **Concepts, Techniques, and Models of Computer Programming** Peter Van Roy,Seif Haridi,2004-02-20 Teaching the science and the technology of programming as a unified discipline that shows the deep relationships between programming paradigms This innovative text presents computer programming as a unified discipline in a way that is both practical and scientifically sound The book focuses on techniques of lasting value and explains them precisely in terms of a simple abstract machine The book presents all major programming paradigms in a uniform framework that shows their deep relationships and how and where to use them together After an introduction to programming concepts the book presents both well known and lesser known computation models programming paradigms Each model has its own set of techniques and each is included on the basis of its usefulness in practice The general models include declarative programming declarative concurrency message passing concurrency explicit state object oriented programming shared state concurrency and relational programming Specialized models include graphical user interface programming distributed programming and constraint programming Each model is based on its kernel language a simple core language that consists of a small number of programmer significant elements The kernel languages are introduced progressively adding concepts one by one thus showing the deep relationships between different models The kernel languages are defined precisely in terms of a simple abstract machine Because a wide variety of languages and programming paradigms can be modeled by a small set of closely related kernel languages this approach allows programmer and student to grasp the underlying unity of programming The book has many program fragments and exercises all of which can be run on the Mozart Programming System an Open Source software package that features an interactive incremental development environment **Introducing C++ for Scientists, Engineers and Mathematicians** Derek Capper,2012-12-06 Since the first edition of C for Scientists Engineers and Mathematicians many things have changed Perhaps the most important is that the ANSI C Standard was approved in 1998 The first edition of this book was incompatible with some parts of the Standard and every effort has been made to rectify this The facilities offered by the C language have also grown enormously since the first edition It is not just the language itself that has grown but the ANSI Standard also defines an extensive range of library facilities I have also made two changes in emphasis since the first edition Firstly since there is so much important material to cover some less important features of the language have been removed The second change is to try to illustrate the language by means of complete programs rather than code fragments Hopefully this will give you more confidence in applying new techniques Finally although C is a bigger language than it was it is even more fun to use Verified Software: Theories, Tools, Experiments Bertrand Meyer,Jim Woodcock,2008-06-29 A Step Towards Verified

Software Worries about the reliability of software are as old as software itself techniques for allaying these worries predate even James King s 1969 thesis on A program verifier What gives the whole topic a new urgency is the conjunction of three phenomena the blitz like spread of software rich systems to control ever more facets of our world and our lives our growing impatience with deficiencies and the development proceeding more slowly alas than the other two trends of techniques to ensure and verify software quality In 2002 Tony Hoare one of the most distinguished contributors to these advances over the past four decades came to the conclusion that piecemeal efforts are no longer sufficient and proposed a Grand Challenge intended to achieve over 15 years the production of a verifying compiler a tool that while processing programs would also guarantee their adherence to specified properties of correctness robustness safety security and other desirable properties As Hoare sees it this endeavor is not a mere research project as might normally be carried out by one team or a small consortium of teams but a momentous endeavor comparable in its scope to the successful mission to send a man to the moon or to the sequencing of the human genome

Visual Studio 2010 and .NET 4 Six-in-One István Novák,Andras Velvart,Adam Granicz,György Balássy,Attila Hajdrik,Mitchel Sellers,Gastón C. Hillar,Ágnes Molnár,Joydip Kanjilal,2010-10-01 Complete coverage of all key NET 4 and Visual Studio 2010 languages and technologies NET 4 is Microsoft s latest version of their core programming platform and Visual Studio 2010 is the toolset that helps write NET 4 applications This comprehensive resource offers one stop shopping for all you need to know to get productive with NET 4 Experienced author and NET guru Mitchel Sellers reviews all the important new features of NET 4 including NET charting and ASP NET charting ASP NET dynamic data and jQuery and the addition of F as a supported package language The expansive coverage is divided into six distinctive parts for easy navigation and addresses Visual Studio 2010 NET 4 ASP NET the C language the VB NET language and the new F language A practical approach and complete examples round out this much needed reference Focuses on the new and important features of the latest version Microsoft s core programming platform NET 4 as well as Visual Studio 2010 which allows you to write NET 4 applications Provides comprehensive coverage divided into six parts Visual Studio 2010 NET 4 ASP NET the C language the VB NET language and the new F language Discusses Visual Studio snippets and templates NET charting components the NET framework and WPF LINQ and the Entity framework Explores various aspects of Visual Basic 2010 such as multi line lambdas auto implemented properties nullable optional parameters and more This investigative look at NET 4 and Visual Studio 2010 will help you identify and isolate key elements that can benefit you immediately

Journal of Object-oriented Programming ,2001 [Pro Agile .NET Development with SCRUM](#) Scott Millett,Jerrel Blankenship,Matthew Bussa,2011-12-14 Pro Agile NET Development with SCRUM guides you through a real world ASP NET project and shows how agile methodology is put into practice There is plenty of literature on the theory behind agile methodologies but no book on the market takes the concepts of agile practices and applies these in a practical manner to an end to end ASP NET project especially the estimating requirements and management aspects of a project Pro Agile NET

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Object-Oriented Construction Handbook Heinz Züllighoven,2004-10-22 Successful businesses and organizations are

continually looking for ways to improve service and customer satisfaction in order to achieve long term customer loyalty In light of these goals software developers must ask the question how does customer orientation influence traditional approaches methods and principles of software development In this book a leading software architect and his team of software engineers describe how the idea of customer orientation in an organization leads to the creation of application oriented software This book describes what application oriented software development is and how it can be conceptually and constructively designed with object oriented techniques It goes further to describe how to best fit together the many different methodologies and techniques that have been created for object orientation such as frameworks platforms components UML Unified Process design patterns and eXtreme Programming to design and build software for real projects This book brings together the best of research development and day to day project work to the task of building large software systems Written by and for developers of large interactive and long lived software systems Includes patterns of proven analysis design and documentation techniques Shows how to develop an appropriate design approach and concrete software development techniques

OBJECT-ORIENTED ARCHITECTURES RODERICK. HARRINGTON,2025

Object-oriented Software Engineering with Eiffel Jean-Marc Jézéquel,1996 A comprehensive up to date and resource filled guide to Eiffel the only pure object oriented programming language In addition to describing Eiffel the book contains descriptions and comparisons of compilers and libraries available on the market as well as other resources for Eiffel programmers in addition to plenty of compiler independent examples and case studies

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