

# Object-Oriented Software Engineering with Eiffel



Jean-Marc Jézéquel

# Object Oriented Software Engineering With Eiffel

**Bertrand Meyer**



## **Object Oriented Software Engineering With Eiffel:**

**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 **Eiffel** Bertrand Meyer,1992 Software Programming Languages *Object-oriented Programming in Eiffel* ,1989 *Object-oriented Programming in Eiffel* Peter G. Thomas,Raymond A. Weedon,1995 A complete tutorial of the Eiffel programming language this book emphasizes the role of abstract data types ADTs in software development It shows how Eiffel s unique approach to programming by contract encourages the design of reusable software components and explores techniques for ensuring the correctness of programs **Touch of Class** Bertrand Meyer,2009-06-29 From object technology pioneer and ETH Zurich professor Bertrand Meyer winner of the Jolt award and the ACM Software System Award a revolutionary textbook that makes learning programming fun and rewarding Meyer builds his presentation on a rich object oriented software system supporting graphics and multimedia which students can use to produce impressive applications from day one then understand inside out as they learn new programming techniques Unique to Touch of Class is a combination of a practical hands on approach to programming with the introduction of sound theoretical support focused on helping students learn the construction of high quality software The use of full color brings exciting programming concepts to life Among the useful features of the book is the use of Design by Contract critical to software quality and providing a gentle introduction to formal methods Will give students a major advantage by teaching professional level techniques in a literate relaxed and humorous way **Eiffel Object-oriented Programming** A. J. Tyrrell,1995 Eiffel is a pure object oriented programming language which is attracting growing attention both in education and in industry It is a high level language and is particularly suitable as a starting point for those who wish to learn the fundamentals of object orientation Eiffel is however much more than a teaching language it incorporates an approach to software development based on ideas of reusability extendibility and reliability Uniquely among object oriented languages it was created with mechanisms for making formal assertions about software components based on the design by contract philosophy This book provides an introduction to object orientation and a practical introduction to virtually all the features provided by the Eiffel programming language It is suitable for those with some experience of programming who wish to learn about object oriented programming It will also appeal to those who already have some knowledge of object orientation and wish to find out about the Eiffel language After an introductory chapter on object orientation several of the early chapters review basic concepts required by readers with little formal knowledge of computer programming From chapter 6 onwards the author examines more difficult issues of object instantiation copying and comparison and the use of class libraries for string and array handling **The Handbook of Software for Engineers and**

**Scientists** Paul W. Ross,1995-10-25 The Handbook of Software for Engineers and Scientists is a single volume ready reference for the practicing engineer and scientist in industry government and academia as well as the novice computer user It provides the most up to date information in a variety of areas such as common platforms and operating systems applications programs networking and many other problem solving tools necessary to effectively use computers on a daily basis Specific platforms and environments thoroughly discussed include MS DOS Microsoft Windows™ the Macintosh and its various systems UNIX™ DEC VAX™ IBM mainframes OS 2 Windows™ NT and NeXTSTEP™ Word processing desktop publishing spreadsheets databases integrated packages computer presentation systems groupware and a number of useful utilities are also covered Several extensive sections in the book are devoted to mathematical and statistical software Information is provided on circuits and control simulation programs finite element tools and solid modeling tools Additional coverage is included on data communications and networking Many appendices at the end of the book provide useful supplemental information such as ASCII codes RS 232 parallel port and pinout information and ANSI escape sequences This valuable resource handbook brings together a wide variety of topics and offers a wealth of information at the reader's fingertips

Revival: The Handbook of Software for Engineers and Scientists (1995) Paul Ross,2018-05-04 The Handbook of Software for Engineers and Scientists is a single volume ready reference for the practicing engineer and scientist in industry government and academia as well as the novice computer user It provides the most up to date information in a variety of areas such as common platforms and operating systems applications programs networking and many other problem solving tools necessary to effectively use computers on a daily basis Specific platforms and environments thoroughly discussed include MS DOS Microsoft Windows™ the Macintosh and its various systems UNIX™ DEC VAX™ IBM mainframes OS 2 Windows™ NT and NeXTSTEP™ Word processing desktop publishing spreadsheets databases integrated packages computer presentation systems groupware and a number of useful utilities are also covered Several extensive sections in the book are devoted to mathematical and statistical software Information is provided on circuits and control simulation programs finite element tools and solid modeling tools

*Object-oriented Software Engineering* George Wilkie,1993 Addresses critical software engineering issues showing how an object oriented approach can provide much improved solutions over other methods Designed as a technology tool

*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

*Object-oriented Software Construction* Bertrand Meyer,1988 Software Engineering

**Computerworld**  
,1992-07-06 For more than 40 years Computerworld has been the leading source of technology news and information for IT influencers worldwide Computerworld's award winning Web site Computerworld.com twice monthly publication focused conference series and custom research form the hub of the world's largest global IT media network

*The Internet of*

*Products* Robert Neumann, 2012-11-27 This study approaches the difficult problem of providing Internet users with a completely transparent view on electronic markets from a product information accessibility point of view Robert Neumann analyzes economic ecological and societal gains of openly accessible product information in the form of theoretical models Though many aspects of very different research disciplines have to be investigated to gain a holistic view on the Internet of Products this thesis reduces the range of involved research topics to product information discoverability related questions

Object-oriented Software Engineering Bernd Bruegge, Allen H. Dutoit, 2010 This textbook develops a long term single project and explores both the theoretical foundations of software engineering as well as the principles and practices of various tools processes and products It emphasizes practical experience whereby participants can apply the techniques learned in class to a realistic problem

**Technology of Object-oriented Languages and Systems** Bertrand Meyer, 1992 The eighth in the TOOLS Technology of Object Oriented Languages and Systems series this book illustrates new developments in object oriented software engineering showing how widely the method is now applied and how researchers and engineers are raising and tackling new problems

**Object-oriented Technology For Database And Software Systems** V S Alagar, Rokia Missaoui, 1995-09-28 Object orientation has become a must know subject for managers researchers and software practitioners interested in the design evolution reuse and management of efficient software components The book contains technical papers reflecting both theoretical and practical contributions from researchers in the field of object oriented OO databases and software engineering systems The book identifies actual and potential areas of integration of OO and database technologies current and future research directions in software methodologies and reflections about the OO paradigm In providing current research and relevant information about this promising and rapidly growing field of object oriented databases and software engineering systems this book is invaluable to research scientists practitioners and graduate students working in the areas of databases and software engineering

Journal of Object-oriented Programming, 2000 Teaching Formal Methods C. Neville Dean, Raymond T. Boute, 2004-10-11

Professional engineers can often be distinguished from other designers by the engineers ability to use mathematical models to describe and 1 analyze their products This observation by Parnas describes the de facto professional standards in all classical engineering disciplines civil mechanical electrical etc Unfortunately it is in sharp contrast with current industrial practice in software design where mathematical models are hardly used at all even by those who 2 in Holloway s words aspire to be engineers The rare exceptions are certain critical applications where mathematical techniques are used under the general name formal methods Yet the same characteristic that make formal methods an necessity in critical applications make them also advantageous in everyday software design at various levels from design efficiency to software quality Why then is education failing with respect to formal methods failing to convince students academics and practitioners alike that formal methods are truly pragmatic failing to overcome a phobia of formality and mathematics failing to provide

students with the basic skills and understanding required

to adopt a more mathematical and logical approach to software development. Until education takes these failings seriously, formal methods will be an obscure byway in software engineering which in turn will remain severely impoverished as a result.

Technology of Object-oriented Languages and Systems : TOOLS 30 Donald G. Firesmith, 1999. The August 1999 conference concentrated on the delivery of high quality software on schedule and within budget, offering practical experience from both industry and academia. The 37 technical papers provide insights from lessons learned on real projects covering such topics as databases, object-oriented programming, and software engineering. *Technology of Object-oriented Languages and Systems : TOOLS 29*, 1999. The proceedings of the June 1999 conference contain 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 special attention.

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