

# Behavioral Specification and Analysis of Object-Oriented Designs

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## Abstract

Formal specifications of design models and an automated analysis system are desirable regardless of the methodology employed in the development process. The object-oriented software development paradigm is being advocated as an effective software methodology. Yet, neither a design framework, nor a set of analysis tools has been proposed to support this claim. This research provides a basis to support OO design specification and analysis. An object-oriented design language was defined in order to facilitate the formalization of design expressions. Structural, architectural and behavioral specifications of objects are formalized. The interaction of objects and their composition into larger systems are defined. The implementation of the language processor is described. The major tasks of the processor are syntactic and semantic analyses. An example is used to illustrate the nice properties the behavioral specifications enjoy.

**Keywords:** object-oriented design, behavioral specifications, design analysis.

# Object Oriented Behavioral Specification

**N Noddings**



## **Object Oriented Behavioral Specification:**

**Object-Oriented Behavioral Specifications** Haim Kilov, William Harvey, 2007-08-20 Object Oriented Behavioral Specifications encourages builders of complex information systems to accelerate their move to using the approach of a scientific discipline in analysis rather than the approach of a craft The focus is on understanding customers needs and on precise specification of understanding gained through analysis Specifications must bridge any gaps in understanding about business rules among customers Subject Matter Experts and computer people must inform decisions about reuse of software and systems and must enable review of semantics over time Specifications need to describe semantics rather than syntax and to do that in an abstract and precise manner in order to create software systems that satisfy business rules The papers in this book show various ways of designing elegant and clear specifications which are reusable lead to savings of intellectual effort time and money and which contribute to the reliability of software and systems Object Oriented Behavioral Specifications offers a fresh treatment of the object oriented paradigm by examining the limitations of traditional OO methodologies and by describing the significance of competing trends in OO modeling The book builds on four years of successful OOPSLA workshops 1991 1995 on behavior semantics This book deals with precise specifications of what is accomplished by the business and what is to be done by a system The book includes descriptions of successful use of abstract and precise specification in industry It draws on the experience of experts from industrial and academic settings and benefits from international participation Collective behavior neglected in some treatment of the OO paradigm is addressed explicitly in this book The book does not take reuse of specifications or software for granted but furnishes a foundation for taking as rigorous an approach to reuse decisions as to precise specifications in original developments Behavioral Specifications of Businesses and Systems Haim Kilov, Bernhard Rumpe, Ian Simmonds, 2013-03-09 Behavioral Specifications of Businesses and Systems deals with the reading writing and understanding of specifications The papers presented in this book describe useful and sometimes elegant concepts good practices in programming and in specifications and solid underlying theory that is of interest and importance to those who deal with increased complexity of business and systems Most concepts have been successfully used in actual industrial projects while others are from the forefront of research Authors include practitioners business thinkers academics and applied mathematicians These seemingly different papers address different aspects of a single problem taming complexity Behavioral Specifications of Businesses and Systems emphasizes simplicity and elegance in specifications without concentrating on particular methodologies languages or tools It shows how to handle complexity and specifically how to succeed in understanding and specifying businesses and systems based upon precise and abstract concepts It promotes reuse of such concepts and of constructs based on them without taking reuse for granted Behavioral Specifications of Businesses and Systems is the second volume of papers based on a series of workshops held alongside ACM's annual conference on Object Oriented Programming Systems Languages and Applications OOPSLA and European

Conference on Object Oriented Programming ECOOP The first volume Object Oriented Behavioral Specifications edited by Haim Kilov and William Harvey was published by Kluwer Academic Publishers in 1996 *Collective Specification and Verification of Behavioral Models and Object-oriented Implementations* Qing Yi, Jianwei Niu, Anitha R. Marneni, 2010 We present a finite state machine based language iFSM to seamlessly integrate the behavioral logic and implementation strategies of object oriented applications to prevent their design and implementation from being out of sync The language allows developers to focus on higher level abstractions to support software analysis and design instead of focusing on language or architecture specific details To support the language we provide a transformation engine which automatically translates iFSM specifications to lower level C Java implementations of object oriented classes The auto generated implementations from iFSM are similar in style to the manually written code so that they are readable and easily integrable with the existing code Our experiments show that their performance is similarly comparable to that of manually written programs We have automatically verified that these implementations are consistent with their behavioral models by translating iFSM specifications into the input language of model checker NuSMV Automatic Generation of Object-oriented Class Implementations from Behavioral Specifications Anitha Rani Marneni, 2010 **OOPSLA 1994** Haim Kilov, Bill Harvey, Hafedh Mili, Robert Morris College (Coraopolis, Pa.). Institute for Information Management, 1994 **ZUM ... the Z Formal Specification Notation**, 1998 **Fourth IEEE Real-Time Technology and Applications Symposium**, 1998 This volume addresses topics including scheduling communication methodologies and architectures operating systems and middleware quality of service specification and verification database and information systems and experiences and case studies *ECOOP ...*, 1999 FM ... Formal Methods, 1999 *Advanced Topics in Database Research* Keng Siau, 2002 *Advanced Topics in Database Research* is a series of books on the fields of database software engineering and systems analysis and design They feature the latest research ideas and topics on how to enhance current database systems improve information storage refine existing database models and develop advanced applications *Advanced Topics in Database Research Volume 5* is a part of this series *Advanced Topics in Database Research Volume 5* presents the latest research ideas and topics on database systems and applications and provides insights into important developments in the field of database and database management This book describes the capabilities and features of new technologies and methodologies and presents state of the art research ideas with an emphasis on theoretical issues regarding databases and database management Publisher *Software Engineering Environments*, 1995 Malcolm S. Verrall, 1995 Sessions on database issues PCTE process modeling integration and orientation from the proceedings of the April 1995 conference offer recent research in principles models architecture and design in software engineering environments Subjects include CASE Tool integration Indra requirements Proceedings of the 1993 Summer Computer Simulation Conference Joel Schoen, 1993 Entity-relationship Approach, 1993 **Proceedings**, 1992 **Proceedings of the 18th International Conference**

**on Very Large Data Bases** Li-Yan Yuan,1992      *COTS-based Software Systems* ,2003      **Computer Systems Science & Engineering** ,1999      *Masters Theses in the Pure and Applied Sciences* Sade H Shafer,1995 Cited in Sheehy Chen and Hurt Volume 38 thesis year 1993 reports a total of 13 787 thesis titles from 22 Canadian and 164 US universities As in previous volumes thesis titles are arranged by discipline and by university within each discipline Any accredited university or college with a grad      *Journal of Object-oriented Programming* ,2001      *Proceedings, 11th IEEE International Conference and Workshop on the Engineering of Computer-Based Systems* Vaclav Dvorak,Miroslav Sveda,2004

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## **Table of Contents Object Oriented Behavioral Specification**

1. Understanding the eBook Object Oriented Behavioral Specification
  - The Rise of Digital Reading Object Oriented Behavioral Specification
  - Advantages of eBooks Over Traditional Books
2. Identifying Object Oriented Behavioral Specification
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Object Oriented Behavioral Specification
  - User-Friendly Interface
4. Exploring eBook Recommendations from Object Oriented Behavioral Specification
  - Personalized Recommendations
  - Object Oriented Behavioral Specification User Reviews and Ratings
  - Object Oriented Behavioral Specification and Bestseller Lists

5. Accessing Object Oriented Behavioral Specification Free and Paid eBooks
  - Object Oriented Behavioral Specification Public Domain eBooks
  - Object Oriented Behavioral Specification eBook Subscription Services
  - Object Oriented Behavioral Specification Budget-Friendly Options
6. Navigating Object Oriented Behavioral Specification eBook Formats
  - ePub, PDF, MOBI, and More
  - Object Oriented Behavioral Specification Compatibility with Devices
  - Object Oriented Behavioral Specification Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Object Oriented Behavioral Specification
  - Highlighting and Note-Taking Object Oriented Behavioral Specification
  - Interactive Elements Object Oriented Behavioral Specification
8. Staying Engaged with Object Oriented Behavioral Specification
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Object Oriented Behavioral Specification
9. Balancing eBooks and Physical Books Object Oriented Behavioral Specification
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Object Oriented Behavioral Specification
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Object Oriented Behavioral Specification
  - Setting Reading Goals Object Oriented Behavioral Specification
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Object Oriented Behavioral Specification
  - Fact-Checking eBook Content of Object Oriented Behavioral Specification
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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