

Deriving Object-Oriented Specifications from Algebraic Specifications through Refinement



Filesize: 9.72 MB

Reviews

Absolutely essential study publication. Sure, it is enjoy, nonetheless an amazing and interesting literature. I realized this book from my dad and i suggested this pdf to find out.
(Justus Abbott)

DERIVING OBJECT-ORIENTED SPECIFICATIONS FROM ALGEBRAIC SPECIFICATIONS THROUGH REFINEMENT

DOWNLOAD



Cuvillier Verlag Dez 2007, 2007. Taschenbuch. Condition: Neu. Neuware - This thesis presents a formal method how to refine algebraic specifications into object-oriented specifications in a systematic way. Thereby, we highlight the conceptual differences between algebraic specifications and object-oriented modeling. The correctness of the refinement step is established by preserving the models of the algebraic specification respecting a natural semantic relation. The thesis also comprises a basic system model for object-oriented systems and a comprehensive case study demonstrating the refinement step. Moreover, we survey the prototype system ASIOS which is an interactive tool mechanizing the transformation of algebraic specifications into object-oriented specifications. The basic system model for object-oriented systems serves to precisely define the semantics of object-oriented specifications. This way, it lays the formal foundation for the proof of the correctness of the transformation. The applicability of the transformation is demonstrated by a case study using the well-known abstract data type 'stacks of natural numbers'. We investigate the transformation for characteristic design choices of the respective design space, and we present object-oriented classes which provide interpretations for the resulting object-oriented specifications. Furthermore, we give an implementation of each of these classes in the object-oriented programming language JAVA. All transformation procedures have been implemented in the prototype system ASIOS. The tool supports the transformation process with a graphical user interface providing the necessary guidance for the programmer in making various design choices. ASIOS includes an editor for entering algebraic specifications in CASL notation which is realized as an Eclipse plug-in. The tool results with UML class diagrams and sequence diagrams that can be exported as XML files. The thesis shows that algebraic specifications can be refined into object-oriented specifications in a profound way. The transformation bridges the gap between functional specification concepts and object-oriented modeling techniques, and thus contributes to a better understanding of object-oriented...



[Read Deriving Object-Oriented Specifications from Algebraic Specifications through Refinement Online](#)



[Download PDF Deriving Object-Oriented Specifications from Algebraic Specifications through Refinement](#)

See Also



No Friends?: How to Make Friends Fast and Keep Them

Createspace, United States, 2014. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Do You Have NO Friends? Are you tired of not having any...

[Read PDF »](#)



The Preschool Inclusion Toolbox: How to Build and Lead a High-Quality Program

Brookes Publishing Co, United States, 2015. Paperback. Book Condition: New. 274 x 213 mm. Language: English . Brand New Book. Filled with tips, tools, and strategies, this book is the comprehensive, practical toolbox preschool administrators...

[Read PDF »](#)



It's Just a Date: How to Get 'em, How to Read 'em, and How to Rock 'em

HarperCollins Publishers. Paperback. Book Condition: new. BRAND NEW, It's Just a Date: How to Get 'em, How to Read 'em, and How to Rock 'em, Greg Behrendt, Amiira Ruotola-Behrendt, A fabulous new guide to dating...

[Read PDF »](#)



Twitter Marketing Workbook: How to Market Your Business on Twitter

Createspace Independent Publishing Platform, United States, 2016. Paperback. Book Condition: New. Workbook. 279 x 216 mm. Language: English . Brand New Book ***** Print on Demand *****.Twitter Marketing Workbook 2016 Learn how to market your...

[Read PDF »](#)



Kindle Fire Tips And Tricks How To Unlock The True Power Inside Your Kindle Fire

CreateSpace Independent Publishing Platform. Paperback. Book Condition: New. This item is printed on demand. Paperback. 52 pages. Dimensions: 9.0in. x 6.0in. x 0.1in. Still finding it getting your way around your Kindle Fire Wish you had...

[Read PDF »](#)