

**FORMAL SPECIFICATION
TECHNIQUES
FOR ENGINEERING
MODULAR C PROGRAMS**

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**foreword by
John Guttag**

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Formal Specification Techniques For Engineering Modular C Programs

Yang Meng Tan



Formal Specification Techniques For Engineering Modular C Programs:

Formal Specification Techniques for Engineering Modular C Programs Tan Yang Meng, 2012-10-13 Software is difficult to develop maintain and reuse Two factors that contribute to this difficulty are the lack of modular design and good program documentation The first makes software changes more difficult to implement The second makes programs more difficult to understand and to maintain Formal Specification Techniques for Engineering Modular C Programs describes a novel approach to promoting program modularity The book presents a formal specification language that promotes software modularity through the use of abstract data types even though the underlying programming language may not have such support This language is structured to allow useful information to be extracted from a specification which is then used to perform consistency checks between the specification and its implementation Formal Specification Techniques for Engineering Modular C Programs also describes a specification driven software re engineering process model for improving existing programs The aim of this process is to make existing programs easier to maintain and reuse while keeping their essential functionalities unchanged Audience Suitable as a secondary text for graduate level courses in software engineering and as a reference for researchers and practitioners in industry [Formal Specification Techniques for Engineering Modular C Programs](#) Yang Meng Tan, 1996 Begins a series for software engineers discussing current research topics and their applications updated versions of ideas and notations and authoritative references on specialized topics Describes a new approach to making software more modular and so easier to change Presents a formal specification language that promotes modularity through the use of abstract data types even though the underlying programming language does not have such support The language allows useful information to be extracted from a specification and used to perform some consistency checks between the specification and its implementation A reference for researchers and practitioners and a secondary text for a graduate course in software engineering Based on Tan s 1994 doctoral thesis for MIT Annotation copyright by Book News Inc Portland OR *Identifying Relevant Information for Testing Technique Selection* Sira Vegas, Natalia Juristo, Victor R. Basili, 2012-12-06 Engineering tasks are supposed to achieve defined goals under certain project constraints Example goals of software engineering tasks include achieving a certain functionality together with some level of reliability or performance Example constraints of software engineering tasks include budget and time limitations or experience limitations of the developers at hand Planning of an engineering project requires the selection of techniques methods and tools suited to achieve stated goals under given project constraints This assumes sufficient knowledge regarding the process product relationships or effects of candidate techniques methods and tools Planning of software projects suffers greatly from lack of knowledge regarding the process product relationships of candidate techniques methods and tools Especially in the area of testing a project planner is confronted with an abundance of testing techniques but very little knowledge regarding their effects under varying project conditions This book offers a novel approach to addressing this problem First based on a

comprehensive initial characterization scheme see chapter 7 an overview of existing testing techniques and their effects under varying conditions is provided to guide the selection of testing approaches Second the optimisation of this knowledge base is suggested based on experience from experts real projects and scientific experiments chapters 8 9 and 10 This book is of equal interest to practitioners researchers and students Practitioners interested in identifying ways to organize their company specific knowledge about testing could start with the schema provided in this book and optimise it further by applying similar strategies as offered in chapters 8 and 9

Tools and Environments for Parallel and Distributed Systems Amr Zaky,Ted Lewis,2012-12-06 Developing correct and efficient software is far more complex for parallel and distributed systems than it is for sequential processors Some of the reasons for this added complexity are the lack of a universally acceptable parallel and distributed programming paradigm the criticality of achieving high performance and the difficulty of writing correct parallel and distributed programs These factors collectively influence the current status of parallel and distributed software development tools efforts Tools and Environments for Parallel and Distributed Systems addresses the above issues by describing working tools and environments and gives a solid overview of some of the fundamental research being done worldwide Topics covered in this collection are mainstream program development tools performance prediction tools and studies debugging tools and research and nontraditional tools Audience Suitable as a secondary text for graduate level courses in software engineering and parallel and distributed systems and as a reference for researchers and practitioners in industry

Software Process Modeling Silvia T. Acuna,Natalia Juristo,2006-01-27 Software Process Modeling brings together experts to discuss relevant results in software process modeling and expresses their personal view of this field This book focuses on new aspects of software process modeling Specifically it deals with socio technological aspects process modeling for new development types open source software dependability applications etc and organization change management The computer audience is placing growing demands on the software industry today Consumers are looking for more complex products that are at the same time easier to use Software developer organizations are expected to produce higher quality products and deliver them to the public faster In so doing however globally distributed development teams have to cope with understaffing and changing technologies The challenges for the software industry are apparently mounting Over the years a variety of software process models have been designed to structure describe and prescribe the software systems construction process Most recently software process modeling is increasingly dealing with new challenges raised by the tests that the software industry has to stand Software Process Modeling is designed for a professional audience of researchers and practitioners in industry The book is also suitable for graduate level students in computer science

Software Defect and Operational Profile Modeling Kai-Yuan Cai,2012-12-06 also in THE KLUWER INTERNATIONAL SERIES ON ASIAN STUDIES IN COMPUTER AND INFORMATION SCIENCE Volume 1

Process Improvement in Practice Tore Dybå,Torgeir Dingsøy, Nils Brede Moe,2006-05-02 Faster better and cheaper are

challenges that IT companies face every day The customer s expectations shall be met in a world where constant change in environment organization and technology are the rule rather than the exception A solution for meeting these challenges is to share knowledge and experience use the company s own experience and the experience of other companies Process Improvement in Practice A Handbook for IT Companies tackles the problems involved in launching these solutions Process Improvement in Practice A Handbook for IT Companies is designed for small IT companies who wish to start with systematic improvement The methods and techniques in this handbook are tried in practice and have proven to be easy to use and scalable for local needs Managers and developers will discover useful tips to initiate improvement work efficiently This practical handbook is based on the authors improvement work in a range of companies since the mid nineties Process Improvement in Practice A Handbook for IT Companies is designed for a professional audience composed of researchers and practitioners in industry This book is also suitable for graduate level students in software process improvement and software engineering Constraint-Based Design Recovery for Software Reengineering Steven G. Woods,Alexander E. Quilici,Qiang Yang,1997-11-30 The great challenge of reverse engineering is recovering design information from legacy code the concept recovery problem This monograph describes our research effort in attacking this problem It discusses our theory of how a constraint based approach to program plan recognition can efficiently extract design concepts from source code and it details experiments in concept recovery that support our claims of scalability Importantly we present our models and experiments in sufficient detail so that they can be easily replicated This book is intended for researchers or software developers concerned with reverse engineering or reengineering legacy systems However it may also interest those researchers who are interested using plan recognition techniques or constraint based reasoning We expect the reader to have a reasonable computer science background i e familiarity with the basics of programming and algorithm analysis but we do not require familiarity with the fields of reverse engineering or artificial intelligence AI To this end we carefully explain all the AI techniques we use This book is designed as a reference for advanced undergraduate or graduate seminar courses in software engineering reverse engineering or reengineering It can also serve as a supplementary textbook for software engineering related courses such as those on program understanding or design recovery for AI related courses such as those on plan recognition or constraint satisfaction and for courses that cover both topics such as those on AI applications to software engineering ORGANIZATION The book comprises eight chapters Technology of Object-oriented Languages and Systems : TOOLS 28 Christine Mingins,Bertrand Meyer,1998 Annotation This book provides a comprehensive look into the state of the object oriented art TOOLS is the major international forum entirely devoted to the practical applications of object oriented technology A must read for anyone who wants to know the latest practical developments in the hottest area of the software field BOOK JACKET Title Summary field provided by Blackwell North America Inc All Rights Reserved

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Books In Print 2004-2005 Ed Bowker Staff,Staff Bowker, Ed,2004

Workshop on Industrial-Strength Formal Specification Techniques ,1995 Thirteen papers presented at the title workshop held in April 1995 in Boca Raton Fla whose objective was the analysis and synthesis of industrial applications of formal software development methods Topics include formal verification of the AAMP5 microprocessor timing analysis of industrial r Forthcoming Books Rose Arny,1996-06 *The British National Bibliography* Arthur James Wells,1996 ZUM ... the Z Formal Specification Notation ,1998 **Subject Guide to Books in Print** ,1991 Engineering of Computer-based Systems IEEE Computer Society. Technical Committee on the Engineering of Computer Based Systems,2002 Papers from an April 2002 conference 25 in all report on academic achievements and industrial applications in the engineering of computer based systems Contributors represent some 12 countries and a variety of application domains Papers deal with themes of requirements engineering processes and tools system properties and methods modeling and analysis system architecture model based system development component based design and reuse embedded systems and mobile agents Specific topics include an intelligent agent security intrusion system managing complex temporal requirements in real time control systems using category theory to model software component dependencies and advanced Petri nets for modeling mobile agent enabled interorganizational workflows There is no subject index Annotation copyrighted by Book News Inc Portland OR **Advanced Information Systems Engineering** ,1996 **Whitaker's Books in Print** ,1998 Dr. Dobb's Journal of Software Tools for the Professional Programmer ,1988

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