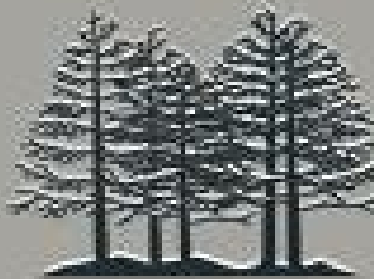


TEXTS AND MONOGRAPHS IN COMPUTER SCIENCE

# LARCH: LANGUAGES AND TOOLS FOR FORMAL SPECIFICATION

**John V. Guttag/James J. Horning**

with S.J. Garland, K.D. Jones, A. Modet, and J.M. Wing



Springer-Verlag

# Larch Languages And Tools For Formal Specification

**Jian Chen**



## **Larch Languages And Tools For Formal Specification:**

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*Specification of Software Systems* V.S. Alagar, K. Periyasamy, 2013-03-14 This is a textbook on software specification emphasizing formal methods that are relevant to requirements and design stages of software development. The aim of the book is to teach the fundamental principles of formal methods in the construction of modular and

verifiable formal specifications The book introduces several formal specification techniques and illustrates the expressive power of each technique with a number of examples

**General Characteristics** Traditional textbooks on software engineering discuss the difficulties and challenges that lie on the path from requirements analysis to implementation of a software product Most of these books describe some techniques in detail and give hints on implementation of these techniques Only a few among them deal with important software engineering principles and techniques and discuss how a particular technique may be used to implement a given principle There is very little exposure in these books to a rigorous approach to or a systematic study of the construction of verifiable software Those who have acquired an understanding of the fundamental principles of software engineering from traditional textbooks will find the following characteristics of this book quite relevant to the practice of software engineering The book deals with specification The principal characteristic of this book is to discuss formalisms that provide a theoretical foundation for the principles of software engineering and are appropriate to the requirements and design stages of software development

*Encyclopedia of Computer Science and Technology* Allen Kent, James G. Williams, 2021-05-30 Volume 38 Supplement 23 Algorithms for Designing Multimedia Storage Servers to Models and Architectures Covering more than basic computer commands and procedures this encyclopaedia summarizes how technology has developed the future of computer programs and applications and the significance of computer components Following an introduction and overview there are approximately 750 to 800 entries

[ZUM ... the Z Formal Specification Notation](#) ,1995

**Cryptographic Security Architecture** Peter Gutmann, 2007-05-08 A cryptographic security architecture is the collection of hardware and software that protects and controls the use of encryption keys and similar cryptovariables It is the foundation for enforcing computer security policies and controls and preempting system misuse This book provides a comprehensive design for a portable flexible high security cryptographic architecture with particular emphasis on incorporating rigorous security models and practices Cryptographic Security Architecture unveils an alternative means of building a trustworthy system based on concepts from established software engineering principles and cognitive psychology Its novel security kernel design implements a reference monitor that controls access to security relevant objects and attributes based on a configurable security policy

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**Formal Description**

**Techniques** ,1996      Formal Description Techniques IX R. Gotzhein,J. Brederke,1996-09-30 This book is the combined proceedings of the latest IFIP Formal Description Techniques FDTs and Protocol Specification Testing and Verification PSTV series It addresses FDTs applicable to communication protocols and distributed systems with special emphasis on standardised FDTs It features state of the art in theory application tools and industrialisation of formal description

*COTS-Based Software Systems* Hakan Erdogmus,Tao Weng,2003-07-01 This book constitutes the refereed proceedings of the Second International Conference on COTS Based Software Systems ICCBSS 2003 held in Ottawa Canada in February 2003 The 24 revised full papers presented were carefully reviewed and selected from numerous submissions The papers address all current issues on commercial off the shelf systems from the point of view of research and development as well as from the practitioner s application point of view      Formal Methods and Software Development. Proceedings of the International Joint Conference on Theory and Practice of Software Development (TAPSOFT), Berlin, March 25-29, 1985 Hartmut Ehrig,Christiane Floyd,Maurice Nivat,James Thatcher,1985-03-01      *Software Systems in Engineering, 1995* Daniel Cooke,1995      Technology of Object-oriented Languages, TOOLS 24 Jian Chen,1998 This volume covers topics including performance evaluation of objects with roles design of flexible class library management systems assembling software with the reusable components in a library and object oriented technology transfer to multiprocessor system level synthesis

**Algebraic Foundations of Systems Specification** Hans-Jörg Kreowski,1999-08-19 This IFIP report is a collection of fundamental high quality contributions on the algebraic foundations of system specification The contributions cover and survey active topics and recent advances and address such subjects as the role of formal specification algebraic preliminaries partiality institutions specification semantics structuring refinement specification languages term rewriting deduction and proof systems object specification concurrency and the development process The authors are well known experts in the field and the book is the result of IFIP WG 1.3 in cooperation with Esprit Basic Research WG COMPASS and provides the foundations of the algebraic specification language CASL designed in the CoFI project For students researchers and system developers

**Recent Trends in Data Type Specification** ,1996      **International Workshop on Software Specification and Design [proceedings].** ,1991      *ACM SIGPLAN Notices* ,2006      **OOPSLA '97 : Object Technology, Naturally** ,1997      *Software Engineering* Ian Sommerville,2004 This book discusses a comprehensive spectrum of software engineering techniques and shows how they can be applied in practical software projects This edition features updated chapters on critical systems project management and software requirements

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