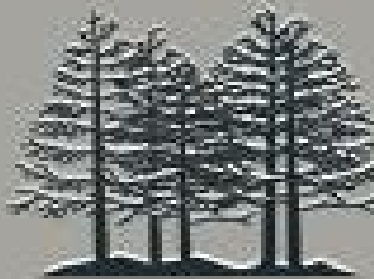


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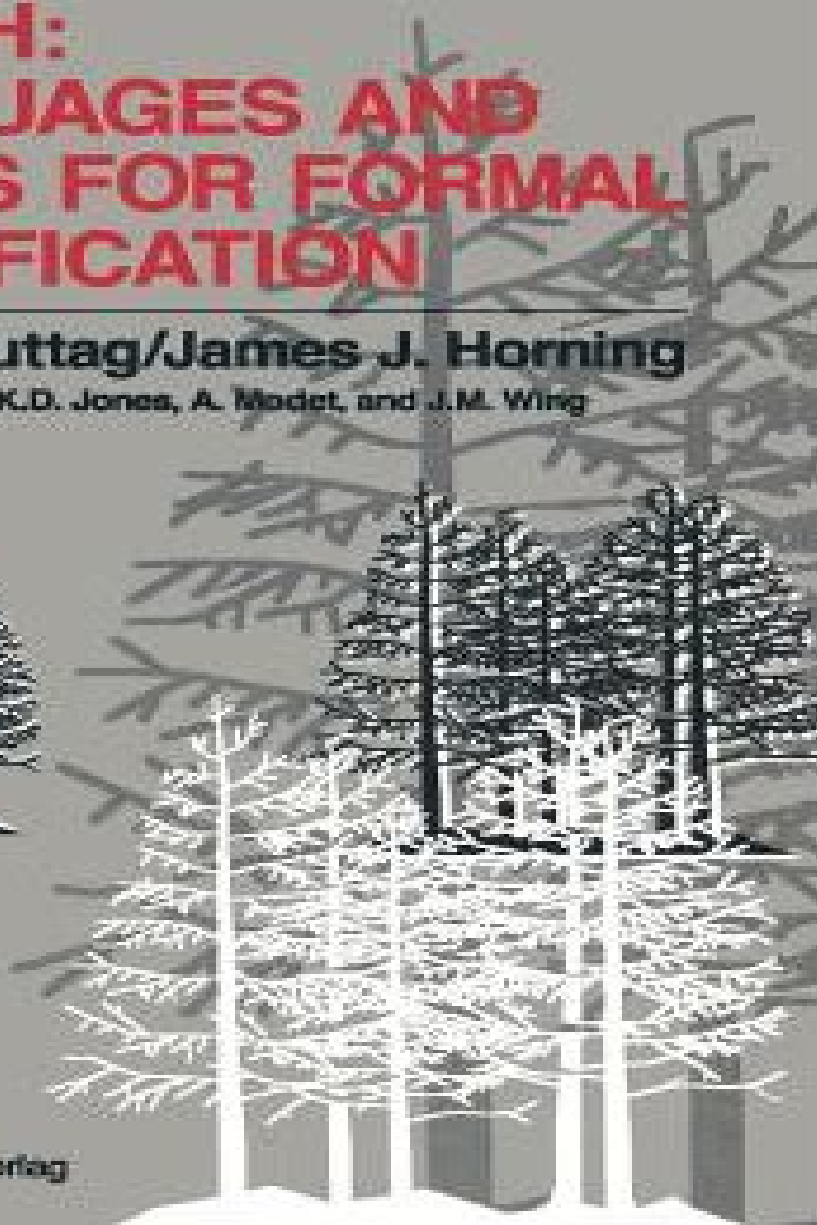
# LARCH: LANGUAGES AND TOOLS FOR FORMAL SPECIFICATION

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

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



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# Larch Languages And Tools For Formal Specification

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



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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 **ZUM ... the Z Formal Specification Notation**, 1995

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**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      *Proceedings* ,2001      Software Architecture Mary Shaw,David Garlan,1996 Introduction Architectural styles Case studies Shared information systems Architectural design guidance Formal models and specifications Linguistics issues Tools for architectural design Education of software architects      Proceedings, 11th IEEE International Conference and Workshop on the Engineering of Computer-Based Systems Vaclav Dvorak,Miroslav Sveda,2004      *Recent Trends in Data Type Specification* ,1996      *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      **Algebraic Methodology and Software Technology** ,2002      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      *SIGSOFT '95* Gail E. Kaiser,1995      **Proceedings of the Thirteenth Annual National Conference on Ada Technology** ,1995

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