

TEXTS AND MONOGRAPHS IN COMPUTER SCIENCE

SPECIFICATION AND TRANSFORMATION OF PROGRAMS

**A FORMAL APPROACH TO
SOFTWARE DEVELOPMENT**

Helmut A. Partsch



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Specification And Transformation Of Programs A Formal Approach To Software Development

**Berthold Hoffmann, Bernd Krieg-
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Program Development by Specification and Transformation Berthold Hoffmann, Bernd Krieg-Brückner, 1993-08-30 This volume gives a coherent presentation of the outcome of the project PROSPECTRA PROgram development by SPECification and TRANSformation that aims to provide a rigorous methodology for developing correct software and a comprehensive support system The results are substantial a theoretically well founded methodology covering the whole development cycle a very high level specification and transformation language family allowing meta program development and formalization of the development process itself and a prototype development system supporting structure editing incremental static semantic checking interactive context sensitivetransformation and verification development of transformation meta programs version management and so on with an initial libraryof specifications and a sizeable collection of implemented transformations The intended audience for this documentation is the academic community working in this and related areas and those members of the industrial community interested in the use of formal methods

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VDM '91. Formal Software Development Methods. 4th International Symposium of VDM Europe, Noordwijkerhout, The Netherlands, October 21-25, 1991. Proceedings Soren Prehn, Hans Toetenel, 1991-10-14 The proceedings of the fourth Vienna Development Method Symposium VDM 91 are published here in two volumes Previous VDM symposia were held in 1987 LNCS 252 1988 LNCS 328 and 1990 LNCS 428 The VDM symposia have been organized by the VDM Europe formed in 1985 as an advisory board sponsored by the Commission of the European Communities The VDM Europe working group consisted of researchers software engineers and programmers all interested in promoting the industrial usage of formal methods for software development The fourth VDM symposium presented not only VDM but also a large number of other methods for formal software development Volume 1 contains the conference contributions It has four parts contributions of invited speakers papers project reports and tools demonstration abstracts The emphasis is on methods and calculi for development verification and verification tools support experiences from doing developments and the associated theoretical problems Volume 2 contains four introductory tutorials on LARCH Refinement Calculus VDM and RAISE and four advanced tutorials on ABEL PROSPECTRA THE B Method and The Stack They present a comprehensive account of the state of the art

Algebraic Methodology and Software Technology Martin Wirsing, Maurice Nivat, 1996-06-19 Content Description Includes bibliographical references and index

Algorithmic Languages and Calculi Richard Bird, Lambert Meerkens, 2016-01-09 The general theme of this conference is notations methods and tool support for the calculation of programs from specifications The purpose of this working conference is to present the results of ongoing research descriptions of existing and proposed systems and applications to the production of practical software

Knowledge-based Software Development for Real-time Distributed Systems Jeffrey J.-P. Tsai, Thomas J.

Weigert, 1993 The interplay of artificial intelligence and software engineering has been an interesting and an active area in research institution and industry This book covers the state of the art in the use of knowledge based approaches for software specification design implementation testing and debugging Starting with an introduction to various software engineering paradigms and knowledge based software systems the book continues with the discussion of using hybrid knowledge representation as a basis to specify software requirements to facilitate specification analysis and transformation of real time distributed software systems A formal requirements specification language using non monotonic logic temporal logic frames and production systems for new software engineering paradigms such as rapid prototyping operational specification and transformational implementation is also discussed in detail Examples from switching and other applications are used to illustrate the requirements language Finally the development specification and verification of knowledge based systems are investigated

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