

Formal Language A Practical Introduction

The German-Speaking World is an accessible textbook that offers students the opportunity to explore for themselves a wide range of sociolinguistic issues relating to the German language and its role in the world. This new, second edition has been fully revised to reflect the many political and social changes of the last 20 years including the impact of technology on language change. It continues to combine text with practical exercises and discussion questions to stimulate readers to think for themselves and to tackle specific problems. Key features of this book: Informative and comprehensive: covers a wide range of current issues Practical: contains a variety of graded exercises and tasks plus an index of terms Topical and contemporary: deals with current situations and provides up-to-date illustrative material Thought-provoking: encourages students to reflect and research for themselves The German-Speaking World is the ideal textbook for undergraduate students who have a sound practical knowledge of German but who have little or no knowledge of linguistics or sociolinguistics. This book constitutes the thoroughly refereed workshop proceedings of the 8th International Workshop on Structured Object-Oriented Formal Language and Method, SOFL+MSVL 2018, held in Gold Coast, QLD, Australia, in November 2018. The 11 revised full papers included in the volume were carefully reviewed and selected from 21 submissions. They are organized in the following topical sections: programming and testing; verification and validation; semantics; and blockchain.

Basics - Notation - Lattices - A simple language - Direct semantics - Control - Data structures and data types - A prolog semantics - Miscellaneous.

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The contributors present the main results and techniques of their specialties in an easily accessible way accompanied with many references: historical, hints for complete proofs or solutions to exercises and directions for further research. This volume contains applications which have not appeared in any collection of this type. The book is a general source of information in computation theory, at the undergraduate and research level.

This book constitutes the refereed proceedings of the 6th International Conference on Language and Automata Theory and Applications, LATA 2012, held in A Coruña, Spain in March 2012. The 41 revised full papers presented together with 3 invited talks and 2 invited tutorials were carefully reviewed and selected from 114 initial submissions. The volume features contributions from both classical theory fields and application areas; e.g. informatics, systems biology, language technology, artificial intelligence, etc. Among the topics covered are algebraic language theory, automata and logic, systems analysis, systems verifications, computational complexity, decidability, unification, graph transformations, language-based cryptography, and applications in data mining, computational learning, and pattern recognition. Automata and natural language theory are topics lying at the heart of computer science. Both are linked to computational complexity and together, these disciplines help define the parameters of what constitutes a computer, the structure of programs, which problems are solvable by computers, and a range of other crucial aspects of the practice of computer science. In this important volume, two respected authors/editors in the field offer accessible, practice-oriented coverage of these issues with an emphasis on refining core problem solving skills.

This book describes the Property Specification Language PSL, recently standardized as IEEE

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Standard 1850-2005. PSL was developed to fulfill the following requirements: easy to learn, write, and read; concise syntax; rigorously well-defined formal semantics; expressive power, permitting the specification for a large class of real world design properties; known efficient underlying algorithms in simulation, as well as formal verification. Basic features are covered, as well as advanced topics such as the use of PSL in multiply-clocked designs. A full chapter is devoted to common errors, gathered through the authors' many years of experience in using and teaching the language.

Controlled natural languages (CNLs) are subsets of natural languages, obtained by - stricting the grammar and vocabulary in order to reduce or eliminate ambiguity and complexity. Traditionally, controlled languages fall into two major types: those that - prove readability for human readers, and those that enable reliable automatic semantic analysis of the language. [. . .] The second type of languages has a formal logical basis, i. e. they have a formal syntax and semantics, and can be mapped to an existing formal language, such as ?rst-order logic. Thus, those languages can be used as knowledge representation languages, and writing of those languages is supported by fully au- matic consistency and redundancy checks, query answering, etc. Wikipedia Various controlled natural languages of the second type have been developed by a n- ber of organizations, and have been used in many different application domains, most recently within the Semantic Web. The workshop CNL 2009 was dedicated to discussing the similarities and the d- ferences of existing controlled natural languages of the second type, possible impro- ments to these languages, relations to other knowledge representation languages, tool support, existing and future applications, and further topics of interest.

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This book provides an introduction to practical formal modelling techniques in the context of object-oriented system design. It is aimed at both practising software engineers with some prior experience of object-oriented design/programming and at intermediate or advanced students studying object-oriented design or modelling in a short course. The following features make this book particularly attractive to potential instructors: § The relationship with UML and object-oriented programming makes it easy to integrate with the mainstream computing curriculum. Although the book is about formal methods, it does not have to be treated as a specialist topic. § The use of tools and an accessible modelling language improves student motivation. § The industry-based examples and case studies add to the credibility of the approach. § The light touch approach means that the material appeals to students with a wider range of abilities than is the case in a conventional formal methods text. § Support materials as listed above. This volume presents the papers that have been accepted for the 2015 special sessions of the 13th International Conference on Practical Applications of Agents and Multi-Agent Systems, held at University of Salamanca, Spain, at 3rd-5th June, 2015: Agents Behaviours and Artificial Markets (ABAM); Agents and Mobile Devices (AM); Multi-Agent Systems and Ambient Intelligence (MASMAI); Web Mining and Recommender systems (WebMiRes); Learning, Agents and

Formal Languages (LAFLang); Agent-based Modeling of Sustainable Behavior and Green Economies (AMSBGE); Emotional Software Agents (SSESA) and Intelligent Educational Systems (SSIES). The volume also includes the paper accepted for the Doctoral Consortium in PAAMS 2015. PAAMS, the International Conference on Practical Applications of Agents and Multi-Agent Systems is an evolution of the International Workshop on Practical Applications of Agents and Multi-Agent Systems. PAAMS is an international yearly tribune to present, to discuss and to disseminate the latest developments and the most important outcomes related to real-world applications. It provides a unique opportunity to bring multi-disciplinary experts, academics and practitioners together to exchange their experience in the development of Agents and Multi-Agent Systems.

This is a practical book for computer engineers who want to understand or implement hardware/software systems. It focuses on problems that require one to combine hardware design with software design – such problems can be solved with hardware/software codesign. When used properly, hardware/software co-sign works better than hardware design or software design alone: it can improve the overall performance of digital systems, and it can shorten their design time. Hardware/software codesign can help a designer to make trade-offs between the

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Flexibility and the performance of a digital system. To achieve this, a designer needs to combine two radically different ways of design: the sequential way of decomposition in time, using software, with the parallel way of decomposition in space, using hardware. **Intended Audience** This book assumes that you have a basic understanding of hardware that you are familiar with standard digital hardware components such as registers, logic gates, and components such as multiplexers and arithmetic operators. The book also assumes that you know how to write a program in C. These topics are usually covered in an introductory course on computer engineering or in a combination of courses on digital design and software engineering.

This series provides approachable, yet authoritative, introductions to all the major topics in linguistics. Ideal for students with little or no prior knowledge of linguistics, each book carefully explains the basics, emphasising understanding of the essential notions rather than arguing for a particular theoretical position. **Understanding Semantics** offers a complete introduction to linguistic semantics. The book takes a step-by-step approach, starting with the basic concepts and moving through the central questions to examine the methods and results of the science of linguistic meaning. **Understanding Semantics** unites the treatment of a broad scale of phenomena using data from different languages with a thorough

investigation of major theoretical perspectives. It leads the reader from their intuitive knowledge of meaning to a deeper understanding of the use of scientific reasoning in the study of language as a communicative tool, of the nature of linguistic meaning, and of the scope and limitations of linguistic semantics. Ideal as a first textbook in semantics for undergraduate students of linguistics, this book is also recommended for students of literature, philosophy, psychology and cognitive science.

This book, which gathers the outcomes of the 9th International Conference on Methodologies and Intelligent Systems for Technology Enhanced Learning and its related workshops, expands on the topics of the evidence-based TEL workshop series in order to provide an open forum for discussing intelligent systems for TEL, their roots in novel learning theories, empirical methodologies for their design and evaluation, stand-alone solutions, and web-based ones. The Conference was hosted by the University of Salamanca and was held in Ávila (Spain) from the 26th to the 28th of June 2019. Its goal was to bring together researchers and developers from industry, education, and the academic world to report on the latest scientific research, technical advances, and methodologies. We wish to thank the sponsors: IEEE Systems Man and Cybernetics Society, Spain Section Chapter and the IEEE Spain Section (Technical Co-Sponsor),

IBM, Indra, Viewnext, Global Exchange, AEPIA, APPIA and AIR institute. The second part of this Handbook presents a choice of material on the theory of automata and rewriting systems, the foundations of modern programming languages, logics for program specification and verification, and some chapters on the theoretic modelling of advanced information processing.

A global introduction to language technology and the areas of computer science where language technology plays a role. Surveyed in this volume are issues related to the parsing problem in the fields of natural languages, programming languages, and formal languages. Throughout the book attention is paid to the social forces which influenced the development of the various topics. Also illustrated are the development of the theory of language analysis, its role in compiler construction, and its role in computer applications with a natural language interface between men and machine. Parts of the material in this book have been used in courses on computational linguistics, computers and society, and formal approaches to languages.

PAAMS, the International Conference on Practical Applications of Agents and Multi-Agent Systems is an evolution of the International Workshop on Practical Applications of Agents and Multi-Agent Systems. PAAMS is an international yearly tribune to present, to discuss, and to disseminate the latest developments

and the most important outcomes related to real-world applications. It provides a unique opportunity to bring multi-disciplinary experts, academics and practitioners together to exchange their experience in the development of Agents and Multi-Agent Systems. This volume presents the papers that have been accepted for the 2011 edition in the special sessions: Special Session on Agents Behaviours for Artificial Markets, Special Session on Multi-Agent Systems for safety and security, Special Session on Web Mining and Recommender Systems, Special Session on Adaptive Multi-Agent System, Special Session on Integration of Artificial Intelligence Technologies in Resource-Constrained Devices, Special Session on Bio-Inspired and Multi-Agents Systems: Applications to Languages and Special Session on Agents for smart mobility. This book, written accessibly for both biologists and linguists, argues that language is not as exceptional a human trait as some linguists believe it to be. It is rather, according to the authors, just the human version of a fairly common and conservative organic system, the Central Computational Complex. This accessible textbook offers students the opportunity to explore for themselves a wide range of sociolinguistic issues relating to the German language and its role in societies around the world. It is written for undergraduate students who have a sound practical knowledge of German but who have little or

no knowledge of linguistics or sociolinguistics. It combines text with practical exercises and discussion questions to stimulate readers to think for themselves and to tackle specific problems. In Part One Patrick Stevenson invites readers to investigate and reflect on issues about the status and function of the German language in relation to its speakers and to speakers of other languages with which it comes into contact. In Part Two the focus shifts to the forms and functions of individual features of the language. This involves, for example, identifying features of regional speech forms, analysing similarities and differences between written and spoken German, or looking at the 'social meaning' underlying different forms of address. Part Three explores the relationship between the German language and the nature of 'Germanness'. It concentrates on people's attitudes towards the language, the ways in which it is changing, and their views on what it represents for them.

This book constitutes the refereed proceedings of the 9th International Haifa Verification Conference, HVC 2013, held in Haifa, Israel in November 2013. The 24 revised full papers presented were carefully reviewed and selected from 49 submissions. The papers are organized in topical sections on SAT and SMT-based verification, software testing, supporting dynamic verification, specification and coverage, abstraction and model presentation.

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Introducing the Language of the News is a comprehensive introduction to the language of news reporting. Assuming no prior knowledge of linguistics, the book provides an accessible analysis of the processes that produce news language, and discusses how different linguistic choices promote different interpretations of news texts. Key features include: comprehensive coverage of both print and online news, including news design and layout, story structure, the role of headlines and leads, style, grammar and vocabulary a range of contemporary examples in the international press, from the 2012 Olympics, to political events in China and the Iraq War. chapter summaries, activities, sample analyses and commentaries, enabling students to undertake their own analyses of news texts a companion website with extra activities, further readings and web links. Written by an experienced researcher and teacher, this book is essential reading for students studying English language and linguistics, media and communication studies, and journalism.

This volume contains the tutorial papers of the Summer School “Reasoning Web,” July 25–29, 2005 (<http://reasoningweb.org>). The School was hosted by the University of Malta and was organized by the Network of Excellence REVERSE “Reasoning on the Web with Rules and Semantics” (<http://reverse.net>), funded by the EU Commission and by the Swiss Federal Office for Education and Science

within the 6th Framework Programme under the project reference number 506779. The objective of the school was to provide an introduction into methods and issues of the Semantic Web, a major endeavor in current Web research, where the World Wide Web Consortium W3C plays an important role. The main idea of the Semantic Web is to enrich Web data with meta-data carrying a “meaning” of the data and allowing Web-based systems to reason about data (and meta-data). The meta-data used in Semantic Web applications is usually linked to a conceptualization of the application domain shared by different applications. Such a conceptualization is called an ontology and specifies classes of objects and relations between them. Ontologies are defined by ontology languages, based on logic and supporting formal reasoning. Just as the current Web is inherently heterogeneous in data formats and data semantics, the Semantic Web will be inherently heterogeneous in its reasoning forms. Indeed, any single form of reasoning turns out to be insufficient in the Semantic Web.

Summary: Discusses language theory beyond linear or string models: trees, graphs, grids, pictures, computer graphics.

This book applies formal language and automata theory in the context of Tibetan computational linguistics; further, it constructs a Tibetan-spelling formal grammar system that generates a Tibetan-spelling formal language group, and an

automata group that can recognize the language group. In addition, it investigates the application technologies of Tibetan-spelling formal language and automata. Given its creative and original approach, the book offers a valuable reference guide for researchers, teachers and graduate students in the field of computational linguistics.

In case you are considering to adopt this book for courses with over 50 students, please contact ties.nijssen@springer.com for more information. This introduction to mathematical logic starts with propositional calculus and first-order logic.

Topics covered include syntax, semantics, soundness, completeness, independence, normal forms, vertical paths through negation normal formulas, compactness, Smullyan's Unifying Principle, natural deduction, cut-elimination, semantic tableaux, Skolemization, Herbrand's Theorem, unification, duality, interpolation, and definability. The last three chapters of the book provide an introduction to type theory (higher-order logic). It is shown how various mathematical concepts can be formalized in this very expressive formal language. This expressive notation facilitates proofs of the classical incompleteness and undecidability theorems which are very elegant and easy to understand. The discussion of semantics makes clear the important distinction between standard and nonstandard models which is so important in

understanding puzzling phenomena such as the incompleteness theorems and Skolem's Paradox about countable models of set theory. Some of the numerous exercises require giving formal proofs. A computer program called ETPS which is available from the web facilitates doing and checking such exercises. Audience: This volume will be of interest to mathematicians, computer scientists, and philosophers in universities, as well as to computer scientists in industry who wish to use higher-order logic for hardware and software specification and verification.

Research on Agents and Multi-Agent Systems has matured during the last decade and many effective applications of this technology are now deployed. PAAMS provides an international forum to present and discuss the latest scientific developments and their effective applications, to assess the impact of the approach, and to facilitate technology transfer. PAAMS started as a local initiative, but has since grown to become THE international yearly platform to present, to discuss, and to disseminate the latest developments and the most important outcomes related to real-world applications. It provides a unique opportunity to bring multi-disciplinary experts, academics and practitioners together to exchange their experience in the development and deployment of Agents and Multi-Agent Systems. PAAMS intends to bring together researchers and developers from industry and the academic world to report on the latest scientific and

technical advances on the application of multi-agent systems, to discuss and debate the major issues, and to showcase the latest systems using agent based technology. It will promote a forum for discussion on how agent-based techniques, methods, and tools help system designers to accomplish the mapping between available agent technology and application needs. Other stakeholders should be rewarded with a better understanding of the potential and challenges of the agent-oriented approach. This edition of PAAMS special sessions. This symposium is organized by the Bioinformatics, Intelligent System and Educational Technology Research Group (<http://bisite.usal.es/>) of the University of Salamanca. The present edition will be held in Salamanca, Spain, from 28th to 30th March 2012. This edition of PAAMS special sessions. This symposium is organized by the Bioinformatics, Intelligent System and Educational Technology Research Group (<http://bisite.usal.es/>) of the University of Salamanca. The present edition will be held in Salamanca, Spain, from 28th to 30th March 2012.

An exploration of human language from the perspective of the natural sciences, this outstanding book brings together leading specialists to discuss the scientific connection of language to disciplines such as mathematics, physics, chemistry and biology.

This year we celebrated another anniversary: after 20 years of SAFECOMP in 1999, this was the 20 SAFECOMP since its inauguration in 1979. This series of events focuses on critical computer applications. It is intended to be a platform for knowledge

transfer between academia, industry, and research institutions. Papers are solicited on all aspects of computer systems in which safety, reliability, and security (applied to safety in terms of integrity and availability) are of importance. The 20th SAFECOMP tried to cover new grounds, both thematically and geographically. The previous 19 SAFECOMPs were held in Austria (1989, 1996), France (1987, 1999), Germany (1979, 1988, 1998), Great Britain (1983, 1986, 1990, 1997), Italy (1985, 1995), Norway (1991), Poland (1993), Switzerland (1992), The th Netherlands (2000), and in the USA (1981, 1992), whereas the 20 was held in Hungary. Authors from 13 countries responded to the Call for Papers, and 10 countries were represented in the final program. The proceedings include 20 papers plus 3 invited papers, covering the areas Reliability Assessment and Security, Safety Case and Safety Analysis, Testing, Formal Methods, Control Systems, and this year covering new grounds with a special emphasis on Human Machine Interface, Components off the Shelf, and Medical Systems.

Formal languages are widely regarded as being above all mathematical objects and as producing a greater level of precision and technical complexity in logical investigations because of this. Yet defining formal languages exclusively in this way offers only a partial and limited explanation of the impact which their use (and the uses of formalisms more generally elsewhere) actually has. In this book, Catarina Dutilh Novaes adopts a much wider conception of formal languages so as to investigate more broadly what exactly is going on when theorists put these tools to use. She looks at the history and

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philosophy of formal languages and focuses on the cognitive impact of formal languages on human reasoning, drawing on their historical development, psychology, cognitive science and philosophy. Her wide-ranging study will be valuable for both students and researchers in philosophy, logic, psychology and cognitive and computer science.

In recent years, there has been a proliferation of technological developments that incorporate processing of human language. Hardware and software can be specialized for designated subject areas, and computational devices are designed for a widening variety of applications. At the same time, new areas and applications are emerging by demanding intelligent technology enhanced by the processing of human language. These new applications often perform tasks which handle information, and they have a capacity to reason, using both formal and human language. Many sub-areas of Artificial Intelligence demand integration of Natural Language Processing, at least to some degree. Furthermore, technologies require coverage of known as well as unknown agents, and tasks with potential variations. All of this takes place in environments with unknown factors. The book covers theoretical work, advanced applications, approaches, and techniques for computational models of information, reasoning systems, and presentation in language. The book promotes work on intelligent natural language processing and related models of information, thought, reasoning, and other cognitive processes. The topics covered by the chapters prompt further research and

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developments of advanced systems in the areas of logic, computability, computational linguistics, cognitive science, neuroscience of language, robotics, and artificial intelligence, among others.

The Formal Semantics of Programming Languages provides the basic mathematical techniques necessary for those who are beginning a study of the semantics and logics of programming languages. These techniques will allow students to invent, formalize, and justify rules with which to reason about a variety of programming languages.

Although the treatment is elementary, several of the topics covered are drawn from recent research, including the vital area of concurrency. The book contains many exercises ranging from simple to miniprojects. Starting with basic set theory, structural operational semantics is introduced as a way to define the meaning of programming languages along with associated proof techniques. Denotational and axiomatic semantics are illustrated on a simple language of while-programs, and full proofs are given of the equivalence of the operational and denotational semantics and soundness and relative completeness of the axiomatic semantics. A proof of Godel's incompleteness theorem, which emphasizes the impossibility of achieving a fully complete axiomatic semantics, is included. It is supported by an appendix providing an introduction to the theory of computability based on while-programs. Following a presentation of domain theory, the semantics and methods of proof for several functional languages are treated. The simplest language is that of recursion equations

with both call-by-value and call-by-name evaluation. This work is extended to languages with higher and recursive types, including a treatment of the eager and lazy lambda-calculi. Throughout, the relationship between denotational and operational semantics is stressed, and the proofs of the correspondence between the operation and denotational semantics are provided. The treatment of recursive types - one of the more advanced parts of the book - relies on the use of information systems to represent domains. The book concludes with a chapter on parallel programming languages, accompanied by a discussion of methods for specifying and verifying nondeterministic and parallel programs.

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(AMIRA); Learning, Agents and Formal Languages (LAFLang); Multi-Agent Systems and Ambient Intelligence (MASMAI); Web Mining and Recommender systems (WebMiRes). The volume also includes the paper accepted for the Doctoral Consortium in PAAMS 2016 and Collocated Events.

This book constitutes the refereed proceedings of the Third International Workshop on Principles and Practice of Semantic Web Reasoning, PPSWR 2005, held in Dagstuhl Castle, Germany in September 2005. The 12 revised full papers presented together with 3 invited contributions were carefully reviewed and selected for inclusion in the book. The major aspects of semantic Web research are addressed in the papers, namely semantic Web architectures, language issues, and formal reasoning methods. The advances are investigated in the context of new design principles and challenging applications.

Business ethics has largely been written from the perspective of analytical philosophy with very little attention paid to the work of continental philosophers. Yet although very few of these philosophers directly discuss business ethics, it is clear that their ideas have interesting applications in this field. This innovative textbook shows how the work of continental philosophers – Deleuze and Guattari, Foucault, Levinas, Bauman, Derrida, Levinas, Nietzsche, Zizek, Jonas, Sartre, Heidegger, Latour, Nancy and Sloterdijk – can provide fresh insights into a

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number of different issues in business ethics. Topics covered include agency, stakeholder theory, organizational culture, organizational justice, moral decision-making, leadership, whistle-blowing, corporate social responsibility, globalization and sustainability. The book includes a number of features designed to aid comprehension, including a detailed glossary of key terms, text boxes explaining key concepts, and a wide range of examples from the world of business.

Formal Language A Practical Introduction Franklin Beedle & Associates

This book is an introduction to pattern recognition, meant for undergraduate and graduate students in computer science and related fields in science and technology. Most of the topics are accompanied by detailed algorithms and real world applications. In addition to statistical and structural approaches, novel topics such as fuzzy pattern recognition and pattern recognition via neural networks are also reviewed. Each topic is followed by several examples solved in detail. The only prerequisites for using this book are a one-semester course in discrete mathematics and a knowledge of the basic preliminaries of calculus, linear algebra and probability theory.

A Concise Introduction to Languages, Machines and Logic provides an accessible introduction to three key topics within computer science: formal languages, abstract machines and formal logic. Written in an easy-to-read,

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informal style, this textbook assumes only a basic knowledge of programming on the part of the reader. The approach is deliberately non-mathematical, and features: - Clear explanations of formal notation and jargon, - Extensive use of examples to illustrate algorithms and proofs, - Pictorial representations of key concepts, - Chapter opening overviews providing an introduction and guidance to each topic, - End-of-chapter exercises and solutions, - Offers an intuitive approach to the topics. This reader-friendly textbook has been written with undergraduates in mind and will be suitable for use on course covering formal languages, formal logic, computability and automata theory. It will also make an excellent supplementary text for courses on algorithm complexity and compilers. B is a formal approach to software specification and development based on the Z specification language. It has been successfully applied in industry, and has robust, commercially available tool support for the entire development lifecycle, from specification through to code generation. The B Language and Method provides a comprehensive introduction to the B Abstract Machine Notation, and how it can be used to support formal specification and development of high integrity systems. Beginning with a discussion of the history of B, it builds up a description of the notation from the basic mathematical notation for sets and sequences, through to the structuring mechanisms of the language, and how it

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supports "programming in the large". Particular emphasis is placed on the use of B in the context of existing software development methods, including object-oriented analysis and design. Specifically designed to support the teaching of B at undergraduate and postgraduate level, the text includes a large number of worked examples and graduated exercises in B AMN specification. It also includes two extended case studies of the development process, and an appendix of proof techniques suitable for B.

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