Jim Woodcock
Jim Davies
Using Z
Specification, Refinement, and Proof

Using Z Specification Proof And Refinement

David N. Card

Using Z Specification Proof And Refinement:

 Using Z Jim Woodcock,Jim Davies,1996 This book contains enough mnaterial for three complete courses of study It provides an introduction to the world of logic sets and relations It explains the use of the Znotation in the specification of realistic systems It shows how Z specifications may be refined to produce executable code this is demonstrated in a selection of case studies The essentials of specification refinement and proof are covered revealing techniques never previously published Exercises Solutions and set of Tranparencies are available via http www comlab ox ac uk usingz html   ZUM '98: The Z Formal Specification Notation Jonathan P. Bowen,Andreas Fett,Michael G. Hinchey,1998-09-16 1 In a number of recent presentations most notably at FME 96 oneofthe foremost scientists in the eld of formal methods C A R Hoare has highlighted the fact that formal methods are not the only technique for producing reliable software This seems to have caused some controversy not least amongst formal methods practitioners How can one of the founding fathers of formal methods seemingly denounce the eld of research after over a quarter of a century of support This is a question that has been posed recently by some formal methods skeptics However Prof Hoare has not abandoned formal methods He is reiterating 2 albeitmoreradically his1987view thatmorethanonetoolandnotationwillbe requiredinthepractical industrialdevelopmentoflarge scalecomplexcomputer systems and not all of these tools and notations will be or even need be formal in nature Formalmethods arenotasolution butratheroneofaselectionoftechniques that have proven to be useful in the development of reliable complex systems and to result in hardware and software systems that can be produced on time and within a budget while satisfying the stated requirements After almostthree decades the time has come to view formalmethods in the context of overall industrial scale system development and their relationship to othertechniquesandmethods Weshouldnolongerconsidertheissueofwhether we are pro formal or anti formal but rather the degree of formality if any that we need to support in system development This is a goal of ZUM 98 the 11th International Conference of Z Users held for the rst time within continental Europe in the city of Berlin Germany   *Refinement in Z and Object-Z* John Derrick,Eerke A. Boiten,2012-12-06 Refinement is one of the cornerstones of the formal approach to software engineering and its use in various domains has led to research on new applications and generalisation This book brings together this important research in one volume with the addition of examples drawn from different application areas It covers four main themes data refinement and its application to Z generalisations of refinement that change the interface and atomicity of operations refinement in Object Z and modelling state and behaviour by combining Object Z with CSP Refinement in Z and Object Z Foundations and Advanced Applications provides an invaluable overview of recent research for academic and industrial researchers lecturers teaching formal specification and development industrial practitioners using formal methods in their work and postgraduate and advanced undergraduate students   Refinement John Derrick,Eerke Boiten,2018-09-03 Refinement is one of the cornerstones of a formal approach to software engineering Refinement is all about turning an

abstract description of a soft or hardware system into something closer to implementation It provides that essential bridge between higher level requirements and an implementation of those requirements This book provides a comprehensive introduction to refinement for the researcher or graduate student It introduces refinement in different semantic models and shows how refinement is defined and used within some of the major formal methods and languages in use today It 1 introduces the reader to different ways of looking at refinement relating refinement to observations 2 shows how these are realised in different semantic models 3 shows how different formal methods use different models of refinement and 4 how these models of refinement are related   *Abstract State Machines, B and Z* Egon Börger,Michael Butler,Jonathan P. Bowen,Paul Boca,2008-09-22 This book constitutes the refereed proceedings of the First International Conference of Abstract State Machines B and Z ABZ 2008 held in London UK in September 2008 The conference simultaneously incorporated the 15th International ASM Workshop the 17th International Conference of Z Users and the 8th International Conference on the B Method The 44 revised full papers presented together with 4 invited contributions were carefully reviewed and selected from numerous submissions The conference fosters the cross fertilization of three rigorous methods for the design and analysis of hardware and software systems both in academia and industry namely Abstract State Machines B and Z Covering a wide range of research spanning from theoretical and methodological foundations to tool support and practical applications the contributions are organized in topical sections on abstract state machines B papers Z papers ABZ short papers and the papers of the Verified Software Repository Network VSR net workshop   **Formal Methods and Software Engineering** Zhiming Liu,Jifeng He,2006-11-23 This book constitutes the refereed proceedings of the 8th International Conference on Formal Engineering Methods ICFEM 2006 held in Macao China in November 2006 The 38 revised full papers presented together with three keynote talks were carefully reviewed and selected from 108 submissions The papers address all current issues in formal methods and their applications in software engineering   International Refinement Workshop and Formal Methods Pacific '98 Jim Grundy,Martin Schwenke,Trevor Vickers,1998-09 IRW FMP 98 provides a forum for the discussion of current research on mathematically based techniques for design and development of computer systems especialloy formal or rigorous methods for developing executable programs from abstract specifications tool support for formal software and practical experience with formal methods Topics also include the specification and verification of hardware and software and the specification and development of real time probabilistic and concurrent systems   **Z User Workshop, London 1992** J.P. Bowen,J.E. Nicholls,1993-06-10 The Z notation has been developed at the Programming Research Group at the Oxford University Computing Laboratory and elsewhere for over a decade It is now used by industry as part of the software and hardware development process in both Europe and the USA It is currently undergoing BSI standardisation in the UK and has been proposed for ISO standardisation internationally In recent years researchers have begun to focus increasingly on the development of techniques and tools to encourage the wider application of Z and other formal methods and notations This

volume contains papers from the Seventh Annual Z User Meeting held in London in December 1992 In contrast to previous years the meeting concentrated specifically on industrial applications of Z and a high proportion of the participants came from an industrial background The theme is well represented by the four invited papers Three of these discuss ways in which formal methods are being introduced and the fourth presents an international survey of industrial applications It also provides a reminder of the improvements which are needed to make these methods an accepted part of software development In addition the volume contains several submitted papers on the industrial use of Z two of which discuss the key area of safety critical applications There are also a number of papers related to the recently completed ZIP project The papers cover all the main areas of the project including methods tools and the development of a Z Standard the first publicly available version of which was made available at the meeting Finally the volume contains a select Z bibliography and section on how to access information on Z through comp specification z the international computer based USENET newsgroup Z User Workshop London 1992 provides an important overview of current research into industrial applications of Z and will provide invaluable reading for researchers postgraduate students andalso potential industrial users of Z *Z in Practice* Rosalind Barden,Susan Stepney,David Cooper,1994 This is the first book aimed at people who already understand the basics of the Z notation and now wish to become users of it Written in a clear manner this practical book demonstrates how Z should be used to solve real problems Key features includes five large case studies and many smaller examples of using Z each illustrating different features of the language each specification includes detailed discussions of the models chosen alternative approaches and leads the reader through the thought processes of the specifier and contains a comprehensive glossary with links into examples in the main text that illustrate the definitions in use Z in Practice is aimed at the practitioner wanting to find out about current practice of formal methods and provides an excellent short guide for non technical project managers and team leaders *ZUM ... the Z Formal Specification Notation* ,1998 **Z User Workshop** ,1990 The mathematical concepts and notational conventions we know of as Z were first proposed around 1981 Its origins were in line with the objectives of the PRG to establish a mathematical basis for program ming concepts and to verify the work by case studies with industry Hence among early Z users some were from academic circles with interests in the mathematical basis of programming others came from industry and were involved with pilot projects and case studies linked with the Programming Research Group Four years ago we had the first Z User Meeting a fairly modest affair with representatives more or less equally divided between academia and industry At the first meeting there were as in this meeting a variety of technical papers reports of work in progress and discussions A number of people from industry came along either because they had begun to use Z or were curious about the new direction In the discussion sessions at the end of the meeting there were calls from attendees for the establishment of a more stable base for the notation including work on its documentation and standards Many of these requests have now been satisfied and the notation is now being proposed for

standards development   *Communicating Process Architectures 2004* Ian East,J. Martin,P.H. Welch,2004 Communicating Process Architecture CPA describes an approach to system development that is process oriented It makes no great distinction between hardware and software It has a major root in the theory of Communicating Sequential Processes CSP However the underlying theory is not limited to CSP The importance of mobility of both channel and process within a network sees integration with ideas from the calculus Other formalisms are also exploited such as BSP and MPI The focus is on sound methods for the engineering of significant concurrent systems including those that are distributed across the Internet or within a single chip and or software scheduled on a single execution unit Traditionally at CPA the emphasis has been on theory and practice developing and applying tools based upon CSP and related theories to build high integrity systems of significant size In particular interest focuses on achieving scalability and security against error The development of Java C and C libraries to facilitate secure concurrent programming using mainstream languages has allowed CPA to continue and proliferate This work continues in support of the engineering of distributed applications Recently there has been greater reference to theory and its more direct application to programming systems and languages In this volume the formal CSP is very well presented The papers provide a healthy mixture of the academic and commercial software and hardware application and infrastructure which reflects the nature of the discipline   *Formal Methods and Software Engineering* ,2003   **Theoretical Computer Science** ,2000   *Conference Publication* ,1988   **An Introduction to Formal Specification and Z** Ben Potter,Jane Sinclair,David Till,1996 Following the sucess of the first edition the authors have updated and revised this bestselling textbook to take into account the changes in the subject over the past 5 years   A Practical Approach to Real-time Systems Phillip A. Laplante,2000 Under the same cover this volume offers both modern and classic papers focusing on real time systems design and analysis Rather than focusing in theoretical observations of real time systems it is intended for the practical professional who is building real real time systems The editor himself the author of a course on real time systems has selected articles to provide a deep exploration of issues raised in his other works In particular emphasis is placed on applying practical but theoretically sound approaches in software engineering rate monotonic design and analysis testing and architecting systems for real time applications   Proceedings ,2003   *ZB ...* ,2003   **Proceedings, Conference on Software Maintenance 1993** David N. Card,1993

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