

# Formal Specification in Z for the Container Control System

Name of the Student

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Author's note

# Introduction To Formal Specification And Z

**Darrel Ince**



## **Introduction To Formal Specification And Z:**

*An Introduction to Formal Specification and Z* Ben Potter, Jane Sinclair, David Till, 1996 Following the success 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

**Z** Antoni Diller, 1990-07-19 This text is about the formal specification language Z suitable for courses on Z and formal methods at first and second year undergraduate level The book includes a tutorial introduction covering the basic mathematics of Z and provides four specification case studies

*An Introduction to Formal Specification with Z and VDM* Deri Sheppard, 1995 Formal methods emphasize the correct and efficient development of software This text puts formal specification in the context of traditional methods of software development including object orientation introducing these concepts and the necessary discrete maths before moving on to look at both Z and VDM in depth using the case study of a drinks dispensing machine

**Formal Specification Using Z** David Lightfoot, 1991 Covers the main areas of formal specification in Z at an introductory level The explanations of the mathematics of Z are interleaved with the development of an example specification Exercises are included throughout and sample solutions are provided

**Introduction to Formal Specification and Z** Ben Potter, Jane Sinclair, David Till, 1990-12 Following the success 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

*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 one of the foremost scientists in the field 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 field 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 albeit more radically his 1987 view that more than one tool and notation will be required in the practical industrial development of large scale complex computer systems and not all of these tools and notations will be or even need be formal in nature Formal methods are not a solution but rather one of a selection of techniques 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 almost three decades the time has come to view formal methods in the context of overall industrial scale system development and their relationship to other techniques and methods

We should no longer consider the issue of whether 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 first time within continental Europe in the city of Berlin Germany

*ZUM '95: The Z Formal Specification Notation* Jonathan P. Bowen, 1995-08-23 This book presents the proceedings of the 9th International Conference of Z Users ZUM 95 held in

Limerick Ireland in September 1995 The book contains 34 carefully selected papers on Z using Z applications of Z proof testing industrial usage object orientation animation of specification method integration and teaching formal methods Of particular interest is the inclusion of an annotated Z bibliography listing 544 entries While focussing on Z by far the most commonly used formal method both in industry and application the volume is of high relevance for the whole formal methods community

**ZUM'97: The Z Formal Specification Notation** Jonathan P. Bowen, Michael G. Hinchey, David Till, 1997-03-20 This book constitutes the refereed proceedings of the 10th International Conference of Z Users ZUM 97 held in Reading UK in April 1997 The volume presents 18 revised full papers together with three invited presentations by internationally leading experts The papers are organized into topical sections on real time systems tools logic system development reactive systems refinement and applications Also a select Z bibliography by Jonathan Bowen is added All in all the book competently reports the state of the art in research and advanced applications of the Z notation

*Introducing Specification Using Z* Bryan Ratcliff, 1994 Offering an introduction to formal specification using the Z notation this practical text makes use of a series of case studies of varying complexity to illustrate the construction of good specifications in Z These case studies serve to describe the most frequently used features of Z the relevant discrete mathematics and the various techniques used The text also includes an introduction to specification validation theorem proving and refinement The importance of formal methods within software engineering is stressed throughout and there are a large number of exercises with solutions

**ZB 2003: Formal Specification and Development in Z and B** Didier Bert, Jonathan P. Bowen, Steve King, Marina Waldén, 2003-08-03 The refereed proceedings of the Third International Conference of Z and B Users ZB 2003 held in Turku Finland in June 2003 The 28 revised full papers presented together with 3 invited papers were carefully reviewed and selected for inclusion in the book The book documents the recent advances for the Z formal specification notation and for the B method spanning the full scope from foundational theoretical and methodological issues to advanced applications tools and case studies

**ZB 2002: Formal Specification and Development in Z and B** Didier Bert, 2002-01-16 This book constitutes the refereed proceedings of the Second International Conference of B and Z Users ZB 2002 held in Grenoble France in January 2002 The 24 papers presented together with three invited contributions were carefully reviewed and selected for inclusion in the book The book documents the recent advances for the Z formal specification notion and for the B method the full scope is covered ranging from foundational and theoretical issues to advanced applications tools and case studies

**An Introduction to Discrete Mathematics, Formal System Specification, and Z** Darrel Ince, 1992 Formal specification is the name given to the use of discrete mathematics in computer science for describing the function of both hardware and software systems Poor specification often gives rise to severe problems in software and hardware installation This textbook is an introduction to both the theory and practice of formal specification and this new edition includes two new chapters on Z one giving a number of small examples in Z the

other covering design and Z Prerequisites in this edition have been kept to a minimum since Professor Ince is at pains to develop the techniques of requirement analysis and discrete mathematics that are needed. Throughout the book are numerous worked examples and exercises which include many real examples of software and computer systems. Software Engineering Research, Management and Applications Roger Lee, 2009-01-29 The 6th ACIS International Conference on Software Engineering Research Management and Applications SERA 2008 was held in Prague in the Czech Republic on August 20-22. SERA 08 featured excellent theoretical and practical contributions in the areas of formal methods and tools, requirements engineering, software process models, communication systems and networks, software quality and evaluation, software engineering networks and mobile computing, parallel distributed computing, software testing, reuse and metrics, database retrieval, computer security, software architectures and modeling. Our conference officers selected the best 17 papers from those papers accepted for presentation at the conference in order to publish them in this volume. The papers were chosen based on review scores submitted by members or the program committee and underwent further rounds of rigorous review.

*ZB 2005: Formal Specification and Development in Z and B* Helen Treharne, Steve King, Martin Henson, Steve Schneider, 2005-04-07 This book constitutes the refereed proceedings of the 4th International Conference of Z and B users ZB 2005 held in Guildford UK in April 2005. The 25 revised full papers presented together with extended abstracts of 2 invited papers were carefully reviewed and selected for inclusion in the book. The papers document the recent advances for the Z formal specification notation and for the B method ranging from foundational theoretical and methodological issues to advanced applications, tools and case studies.

*Z User Workshop, Oxford 1990* J.E. Nicholls, 2013-11-11 *ZB 2000: Formal Specification and Development in Z and B* Jonathan P. Bowen, Steve Dunne, Andrew Galloway, Steve King, 2000-08-16 This book constitutes the refereed proceedings of the First International Conference of B and Z Users ZB 2000 held in York UK in August/September 2000. The 25 revised full papers presented together with four invited contributions were carefully reviewed and selected for inclusion in the book. The book documents the recent advances for the Z formal specification notion and for the B method, the full scope ranging from foundational and theoretical issues to advanced applications, tools and case studies is covered.

*Formal Specification* Nimal Nissanke, 2012-12-06 *Formal Specification* is a textbook for 2nd/3rd year undergraduate and postgraduate courses in Formal Methods which offers a practical and versatile approach to constructing specifications. It covers both model-based and algebraic approaches and emphasises the range of languages and approaches which are available. Mathematical principles are explained using examples from everyday life like card games in order to demystify them and make them more comprehensible. It includes unrivalled coverage of the topic including all important recent advances, lots of exercises with model answers, case studies to guide students through the main principles, margin notes to identify key points. Readers of this book do not have to be fully competent in formal specification; it is written to be accessible to any student who wants to learn about the topic.

**Software Engineer's Reference Book** John A McDermid, 2013-10-22 Software Engineer's Reference Book provides the fundamental principles and general approaches contemporary information and applications for developing the software of computer systems. The book is comprised of three main parts, an epilogue and a comprehensive index. The first part covers the theory of computer science and relevant mathematics. Topics under this section include logic, set theory, Turing machines, theory of computation and computational complexity. Part II is a discussion of software development methods, techniques and technology primarily based around a conventional view of the software life cycle. Topics discussed include methods such as CORE, SSADM and SREM and formal methods including VDM and Z. Attention is also given to other technical activities in the life cycle including testing and prototyping. The final part describes the techniques and standards which are relevant in producing particular classes of application. The text will be of great use to software engineers, software project managers and students of computer science.

**Z User Workshop, York 1991** J. E. Nicholls, 2012-12-06 In ordinary mathematics an equation can be written down which is syntactically correct but for which no solution exists. For example, consider the equation  $x \times 1$  defined over the real numbers; there is no value of  $x$  which satisfies it. Similarly, it is possible to specify objects using the formal specification language Z [3, 4] which can not possibly exist. Such specifications are called inconsistent and can arise in a number of ways. Example 1 The following Z specification of a function  $f$  from integers to integers  $f: \mathbb{Z} \rightarrow \mathbb{Z}$  is inconsistent because axiom i gives  $f(0) = 1$  while axiom ii gives  $f(0) = 2$ . This contradicts the fact that  $f$  was declared as a function, that is  $f$  must have a unique result when applied to an argument. Hence no such  $f$  exists. Furthermore, iff  $0 = 1$  and  $0 = 2$  then  $1 = 2$  can be deduced. From  $1 = 2$  anything can be deduced, thus showing the danger of an inconsistent specification. Note that all examples and proofs start with the word Example or Proof and end with the symbol  $\square$ .

**ZUM ... the Z Formal Specification Notation**, 1998

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