

## Using Z Specification Refinement Proof

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This is the first book to cover the three important areas of using the Z notation -- specification, rigorous and formal proof, and refinement into code. It covers sequences, schemas, promotion, preconditions, a logic for Z, sample theorems, data refinement, algorithm development, and more. For programmers, software designers, and software engineers.

### Using Z: Specification, Refinement, and Proof (Prentice ...

Using Z. Z is a language for describing patterns of declaration and constraint; it can be used to produce structured, mathematical descriptions. It was developed through application to the specification and design of large, complex software systems. It is well-suited to the description of system or component state, and of transactions upon that ...

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Using Z. Specification, refinement, and proof. This book contains enough material for three complete courses of study. It provides an introduction to the world of logic, sets and relations. It explains the use of the Z notation 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.

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We may reason about these specifications using the proof techniques of mathematical logic. We may also refine a specification, yielding another description that is closer to executable code. Z is not intended for the description of non-functional properties, such as usability, performance, size, and reliability.

## **Using Z-specification Refinement and Proof | Logic ...**

Using Z Specification, Refinement, and Proof Jim Woodcock University of Oxford Jim Davies University of Oxford Copyri...

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The Z notation, then, is a mathematical language with a powerful structuring mechanism. In combination with natural language, it can be used to produce formal specifications. We may reason about these specifications using the proof techniques of mathematical logic.

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Abstract. We introduce a framework for program development and specification refinement in the schema calculus of Z. We provide illustrative examples outlining the major design decisions based on an interpretation of operation schemas as sets of programs.

## **Program Development and Specification Refinement in the ...**

The Z Notation: A reference manual. International Series in Computer Science (2nd ed.). Prentice Hall. Davies, Jim; Woodcock, Jim (1996). Using Z: Specification, Refinement and Proof. International Series in Computer Science. Prentice Hall. ISBN 0-13-948472-8. Bowen, Jonathan (1996). Formal Specification and Documentation using Z: A Case Study ...

## **Z notation - Wikipedia**

Martin C. Henson, Steve Reeves Program development and specification refinement in the schema calculus J.P. Bowen, S. Dunne, A. Galloway, S. King (Eds.), Proceedings of ZB2000: Formal Specification and Development in Z and B , number 1878 in LNCS, Springer (September 2000), pp. 344-362

## **Refinement and the Z Schema Calculus - ScienceDirect**

We explore the differences between Z and the refinement calculus, and explain the reasons for some of those differences. We also examine how a development might use both notations, thus giving a path to code from a Z specification. Some rules for switching between the notations are given, and their use is illustrated in a case study.

## **Z and the refinement calculus | SpringerLink**

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