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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 ...

Using Z: Specification, Refinement, and Proof

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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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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. The essentials of specification, refinement and proof are covered, revealing techniques never previously published.

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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 ...

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The Z notation, then, is a mathematical language with a powerful struc- turing mechanism. In combination with natural language, it can be used to produce formal specications. We may reason about these specications 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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