

Using Z Specification Refinement Proof

Using Z ZUM '98: The Z Formal Specification Notation Introducing Specification Using Z Refinement Refinement in Z and Object-Z Formal Specification and Documentation Using Z The Way of Z ZB 2005: Formal Specification and Development in Z and B Abstract State Machines, B and Z Z User Workshop ZB 2003: Formal Specification and Development in Z and B Software Specification Methods ZB 2002: Formal Specification and Development in Z and B Logics of Specification Languages Z User Workshop, Oxford 1990 Integrated Formal Methods Formal Methods and Software Engineering FM'99 - Formal Methods Automatic Methods for the Refinement of System Models ZB 2000: Formal Specification and Development in Z and B

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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.

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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 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

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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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