

algebraic specification - figure 10.2 illustrates how algebraic specifications are presented in this chapter. the body of the specification has four components. 1. an introduction that declares the sort (the type name) of the entity being specified. a sort is the name of a set of objects. it is usually implemented as a type. the introduction may also include an imports declaration where the names of specifications (not ...

an experiment with algebraic specifications of software ... - an experiment with algebraic specifications of software components hong zhu department of computing and electronics oxford brookes university

vol. 1, algebraic specifications:organised and ... - involved in research in the field of algebraic specifications. algebraic methods in software engineering are one of the fertile areas of research under one popular name formal

from: sommerville, i. software engineering, 5th edition ... - from: sommerville, i. software engineering, 5th edition (chap 10) addison wesley, 1995 slide 1 algebraic specification - specifying abstract types in terms of relationships between type operations. from: sommerville, i. software engineering, 5th edition (chap 10) addison wesley, 1995 slide 2 objectives - to explain the role of formal specifications in sub-system interface definition - to ...

abstract algebraic software specifications - 336 usually, algebraic specifications are given by triples where S is a set of sorts, Z a set of operations over S and E a set of k -equations, also called

automated testing ejb components based on algebraic ... - method based on algebraic formal specifications. it has the advantages of highly automated testing process and independence of the software's implementation details. this paper applies the method to software components. an automated testing tool called cascat for java components is presented. a case study of the tool shows the high fault detecting ability. 1. introduction in recent years ...

lecture 11 formal specifications - computer science intranet - lecture 11 "formal specifications comp201 - software engineering 1 . formal specification - techniques for the unambiguous specification of software objectives: to explain why formal specification techniques help discover problems in system requirements to describe the use of: algebraic techniques (for interface specification) and model-based techniques (for behavioural specification) to ...

1991 normal forms for algebraic specifications of reusable ... - using algebraic specifications as a key for reusable software component retrieval. given a database (software base) of software components, each with a corresponding formal algebraic specification, and given a software base query in the form of a specification, we would like to search the database to find the component(s) whose specification(s) best match the query specification. fundamental ...

abstract data types algebraic specifications of and ... - 1 1 algebraic specifications gcmpsc 266 february 26, 2009 abstract data types and software validation guttag, horowitz, and musser 2 algebraic specifications

algebraic specification of modules and their basic ... - an algebraic specification concept for modules in software engineering is introduced which includes, in addition to a parameter and body part, explicit import and export interfaces. this concept integrates the main ideas of parameterized specifications for abstract data types and ...

testing implementations of algebraic specifications with ... - the gap between algebraic specifications and class specifications in an oo programming language, providing the means for software developers to benefit from the advantages of both worlds.

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