

# Fundamentals of algebraic specification

Springer-Verlag - Fundamentals of Algebraic Specification 1

## Algebraic Specification

- An algebra is specified by giving a sort (this is the name of a set), and a set of signatures (this is a set of function specifications).
- For example, think of a simple algebra for arithmetic with addition and subtraction:  
 $\langle S, (+:S \times S \rightarrow S, -:S \times S \rightarrow S) \rangle$
- The specification of an algebra is an abstract entity. We can create a particular algebra with the specification by associating a set (called the *carrier set*) with the sort and a specific function with each operator symbols in the signatures.
- Properties of any particular algebra (or model of an algebra) are specified by giving axioms such as  
 $-(+(x,y),y)=x$

Description: -

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Transportation -- Passenger traffic.

Local transit.

Algebra.

Data structures (Computer science) Fundamentals of algebraic specification

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Problems in American civilization

v. 6, etc.

EATCS monographs on theoretical computer science ;

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Notes: Includes bibliographies and indexes.

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The former construct data structures, the latter define functions on data structures.

## Term

Algebraic specification seeks to systematically develop more efficient programs by: formally defining types of data, and mathematical operations on those data types abstracting implementation details, such as the size of representations in memory and the efficiency of obtaining outcome of computations.

## [PDF] Fundamentals of Algebraic Specification 1: Equations and Initial Semantics

Fundamentals in the sense of concepts from computer science, which are introduced on a conceptual level and formalized in mathematical terms. Fundamentals of Algebraic Specifications 2: Module Specification and Constraints E A T C S MONOGRAPHS ON THEORETICAL COMPUTER SCIENCE : Hartmut Ehrig, Bernd Mahr: Cited by: Fundamentals in the sense of a carefully motivated introduction to algebraic specification, which is understandable for computer scientists and mathematicians.

## Algebraic Specification

Specific problems were then solved as instances of the general theory.

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