Partial Algebras and their Theories

By Hans J Hoehnke

Shaker Verlag Jan 2007, 2007. Taschenbuch. Book Condition: Neu. 210x149x22 mm. Neuware - The book starts with the estabishment of a collection of several more or less obvious algebraic properties (as axioms) of partial operations, expressed symbolically in a basic language. Any category satisfying these axioms is called dht-symmetric and as proposed by H.-J. Vogel in 2005 a Hoehnke category (or H-category). An example is the concrete category Par of sets and partial mappings. Then, by application of structural propositions on related fields of algebra, e.g. on partial orders and lattice theory, the second author could prove a completeness theorem for this type of categories, saying that each H-category is the subdirect product of H- subcategories of the concrete category Par. Consequently, the research could be continued in thas way, that the role of concrete partial operations could be replaced by abstract 'arrows'. That means for the treatment of computational problems it suffices to implement the finite axioms of a H-category in the store of a computer and to use the fixed derivation rules which exist in a corresponding adequate programming language in order to obtain solutions of problems. Abstract H-categories are also called partial theories. Sometimes this treatment is...

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