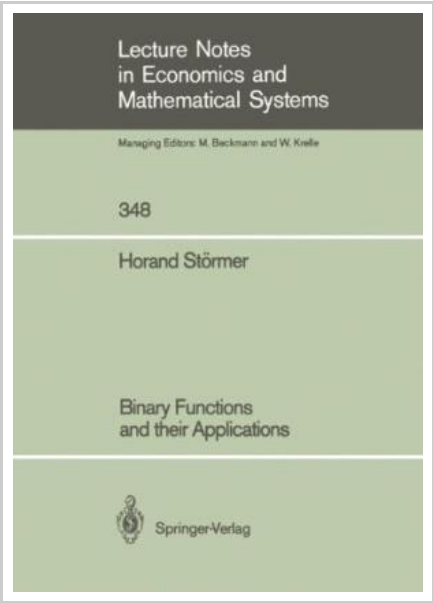

Binary Functions and their Applications

By Störmer, Horand

Book Condition: New. Publisher/Verlag: Springer, Berlin | In this book binary functions and their representation by implicants or implicates are described. In particular minimal representations by prime implicants or prime implicates are given. Such representations generalize the minimal representations of the usual Boolean functions. It is shown that implicants (implicates) of discrete functions may be constructed with the help of implicants (implicates) of binary functions. One substantial application is the description of the reliability structure of technical systems, another is the use of binary respectively discrete functions to classify objects which are described by the grades of certain attributes. Finally a class of Boolean algebras of practical importance (set algebras, indicator algebras, algebras of classes of propositions) are considered. The elements of such algebras have representations which are strongly connected with the representations of binary functions. | 1. Introduction.- 2. Binary Functions and their Representations by Implicants.- 2.1 Cube Indicators.- 2.2 Implicants.- 2.3 Prime Implicants.- 2.4 Representations by Implicants (Prime Implicants).- 3. Representations of Binary Functions by Implicates.- 3.1 Anticube Indicators.- 3.2 Implicates.- 3.3 Prime Implicates.- 3.4 Representations by Implicates (Prime Implicates).- 4. Reduction Methods.- 4.1 Notation.- 4.2 Rule.- 4.3 Rule.- 4.4 Rule.- 4.5 Rule.- 4.6 Rule.- 4.7 Rule (Corollary).-...

Reviews

This publication is definitely worth buying. It can be loaded with wisdom and knowledge I am easily could possibly get a satisfaction of looking at a composed publication.

-- ***Rhiannon Steuber***

Very helpful to all type of individuals. It really is rally interesting throgh looking at time. Its been designed in an extremely basic way which is just soon after i finished reading this pdf through which basically modified me, change the way i believe.

-- ***Tyshawn Brekke***