



Binary Functions and their Applications

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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).-...



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Reviews

Extensive guideline! Its this sort of excellent read. it had been writtern quite properly and helpful. You can expect to like just how the writer create this book.

-- **Mr. Gustave Gerhold**

This book will never be straightforward to start on reading through but quite enjoyable to learn. Better then never, though i am quite late in start reading this one. Your lifestyle span will probably be convert once you complete reading this publication.

-- **Dr. Kadin Hane DVM**