



Introduction to Circuit Complexity: A Uniform Approach (Texts in Theoretical Computer Science. An EATCS Series)

By Heribert Vollmer

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An advanced textbook giving a broad, modern view of the computational complexity theory of boolean circuits, with extensive references, for theoretical computer scientists and mathematicians.

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Editorial Review

From the Back Cover

This advanced textbook presents a broad and up-to-date view of the computational complexity theory of Boolean circuits. It combines the algorithmic and the computability-based approach, and includes extensive discussion of the literature to facilitate further study.

It begins with efficient Boolean circuits for problems with high practical relevance, e.g., arithmetic operations, sorting, and transitive closure, then compares the computational model of Boolean circuits with other models such as Turing machines and parallel machines. Examination of the complexity of specific problems leads to the definition of complexity classes. The theory of circuit complexity classes is then thoroughly developed, including the theory of lower bounds and advanced topics such as connections to algebraic structures and to finite model theory.

Users Review

From reader reviews:

Dorothy Wild:

This Introduction to Circuit Complexity: A Uniform Approach (Texts in Theoretical Computer Science. An EATCS Series) tend to be reliable for you who want to be considered a successful person, why. The reason of this Introduction to Circuit Complexity: A Uniform Approach (Texts in Theoretical Computer Science. An EATCS Series) can be among the great books you must have will be giving you more than just simple reading food but feed anyone with information that perhaps will shock your prior knowledge. This book is actually handy, you can bring it just about everywhere and whenever your conditions both in e-book and printed versions. Beside that this Introduction to Circuit Complexity: A Uniform Approach (Texts in Theoretical Computer Science. An EATCS Series) forcing you to have an enormous of experience such as rich vocabulary, giving you tryout of critical thinking that we know it useful in your day activity. So , let's have it and luxuriate in reading.

Nathan Wilson:

Precisely why? Because this Introduction to Circuit Complexity: A Uniform Approach (Texts in Theoretical Computer Science. An EATCS Series) is an unordinary book that the inside of the guide waiting for you to snap that but latter it will surprise you with the secret the item inside. Reading this book next to it was fantastic author who also write the book in such remarkable way makes the content on the inside easier to understand, entertaining means but still convey the meaning thoroughly. So , it is good for you because of not hesitating having this any longer or you going to regret it. This book will give you a lot of rewards than the other book get such as help improving your expertise and your critical thinking method. So , still want to hesitate having that book? If I ended up you I will go to the e-book store hurriedly.

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