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Note generali	"All sections are written from authors who presented their new results at the 10th IWSBP in September 2012 in Freiberg, Germany."
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Contents; List of Figures; List of Tables; Preface; Foreword; Introduction; Exceptionally Complex Boolean Problems; 1. Boolean Rectangle Problem; 2. Four-Colored Rectangle-Free Grids; 3. Theoretical and Practical Concepts; Digital Circuits; 4. Design; 5. Test; Towards Future Technologies; 6. Reversible and Quantum Circuits; Bibliography; List of Authors; Index of Authors
Sommario/riassunto	In today's world, people are using more and more digital systems in daily life. Such systems utilize the elementariness of Boolean values. A Boolean variable can carry only two different Boolean values: FALSE or TRUE (0 or 1), and has the best interference resistance in technical systems. However, a Boolean function exponentially depends on the number of its variables. This exponential complexity is the cause of major problems in the process of design and realization of circuits. According to...