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Titolo	Efficient Checking of Polynomials and Proofs and the Hardness of Approximation Problems [[electronic resource] /] / edited by Madhu Sudan
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Descrizione fisica	1 online resource (XIV, 94 p.)
Collana	Lecture Notes in Computer Science, , 0302-9743 ; ; 1001
Disciplina	005.1/4/015113
Soggetti	Algorithms Computer logic Software engineering Mathematical logic Coding theory Information theory Numerical analysis Algorithm Analysis and Problem Complexity Logics and Meanings of Programs Software Engineering Mathematical Logic and Formal Languages Coding and Information Theory Numerical Analysis
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Nota di contenuto	On the resilience of polynomials -- Low-degree tests -- Transparent proofs and the class PCP -- Hardness of approximations -- Conclusions.
Sommario/riassunto	This book is based on the author's PhD thesis which was selected as the winning thesis of the 1993 ACM Doctoral Dissertation Competition. The author improved the presentation and included the progress achieved since the thesis was approved by the University of California at Berkeley. This work is a fascinating piece of theoretical computer

science research building on deep results from different areas. It provides new theoretical insights and advances applicable techniques in such different areas as computational complexity, efficient (randomized) checking of proofs, programs and polynomials, approximation algorithms, NP-complete optimization, and error-detection and error-correction algorithms in coding theory.
