1. Record Nr. UNINA9910809724203321

Autore	Moreira Jose <1975->
Titolo	An engineer's guide to automated testing of high-speed interfaces / / Jose Moreira, Hubert Werkmann
Pubbl/distr/stampa	Norwood, Massachusetts : , : Artech House, , [2016] ©2016
ISBN	9781608079865 1-5231-4621-4 1-60807-986-4
Edizione	[Second edition.]
Descrizione fisica	1 online resource (709 pages) : illustrations
Collana	Artech House microwave library
Disciplina	621.3815
Soggetti	Equip de test automàtic Circuits integrats - Proves Circuits integrats d'alta velocitat - Proves Integrated circuits - Testing Automatic test equipment Very high speed integrated circuits
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Preface to the Second Edition; Preface to the First Edition; 1 Introduction; 1.1 Characterization and Design Verification; 1.2 Production Testing; 1.3 Accuracy and Correlation; 1.4 The ATE Test Fixture; 1.5 The Future; 2 High-Speed Digital Basics; 2.1 High-Speed Digital Signaling; 2.2 Time and Frequency-Domains; 2.3 Bit Error Rate; 2.4 Jitter; 2.5 Classification of High-Speed I/O Interfaces; 2.6 Hardware Building Blocks and Concepts; 2.7 Multilevel Signaling; 3 High-Speed Interface Standards; 3.1 PCI Express; 3.2 XDR DRAM; 3.3 GDDR SDRAM; 3.4 MIPI Standards. 3.5 Other High-Speed Digital Interface Standards4 ATE Instrumentation for DigitalApplications; 4.1 ATE Timing Architectures; 4.2 Digital Pin Electronics ATE Card; 4.3 Sampler/Digitizer ATE Card; 4.4 Parametric Measurements with Sampled Data; 4.5 Power Supplies; 5 Tests and Measurements; 5.1 Bit and Pattern Alignment; 5.2 Functional Test; 5.

Sommario/riassunto	This second edition of An Engineer#x92;s Guide to Automated Testing of High-Speed Interfaces provides updates to reflect current state-of-the-art high-speed digital testing with automated test equipment technology (ATE). Featuring clear examples, this one-stop reference covers all critical aspects of automated testing, including an introduction to high-speed digital basics, a discussion of industry standards, ATE and bench instrumentation for digital applications, and test and measurement techniques for characterization and production environment. Engineers learn how to apply automated test equipment for testing high-speed digital I/O interfaces and gain a better understanding of PCI-Express 4, 100Gb Ethernet, and MIPI while exploring the correlation between phase noise and jitter. This updated resource provides expanded material on 28/32 Gbps NRZ testing and wireless testing that are becoming increasingly more pertinent for future applications. This book explores the current trend of merging high-speed digital testing within the fields of photonic and wireless testing.

2.

Record Nr.	UNINA9910960758603321
Autore	Akman Murat
Titolo	The Brunn-Minkowski Inequality and a Minkowski Problem for Nonlinear Capacity
Pubbl/distr/stampa	Providence : , : American Mathematical Society, , 2022 ©2022
ISBN	9781470470142 1470470144
Edizione	[1st ed.]
Descrizione fisica	1 online resource (128 pages)
Collana	Memoirs of the American Mathematical Society ; ; v.275
Classificazione	35J6031B1539B6252A4035J2052A2035J92
Altri autori (Persone)	GongJasun HinemanJay
Disciplina	515/.3533 515.3533
Soggetti	Minkowski geometry Inequalities (Mathematics) Nonlinear theories Elliptic functions Harmonic functions Partial differential equations -- Elliptic equations and systems -- Nonlinear elliptic equations Potential theory -- Higher-dimensional theory -- Potentials and capacities, extremal length Difference and functional equations -- Functional equations and inequalities -- Functional inequalities, including subadditivity,

	convexity, etc Convex and discrete geometry -- General convexity -- Inequalities and extremum problems Partial differential equations -- Elliptic equations and systems -- Variational methods for second-order elliptic equations Convex and discrete geometry -- General convexity -- Convex sets in n dimensions (including convex hypersurfaces) Partial differential equations -- Elliptic equations and systems -- Quasilinear elliptic equations with p-Laplacian
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"Volume 275. January 2022."
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Notation and statement of results -- Basic estimates for A-harmonic functions -- Preliminary reductions for the proof of theorem A -- Proof of theorem A -- Final proof of theorem A -- Appendix -- Introduction and statement of results -- Boundary behavior of A-harmonic functions in Lipschitz domains -- Boundary Harnack inequalities -- Weak convergence of certain measures on Sn-1 -- The Hadamard variational formula for nonlinear capacity -- Proof of theorem B.
Sommario/riassunto	"In this article we study two classical potential-theoretic problems in convex geometry. The first problem is an inequality of Brunn-Minkowski type for a nonlinear capacity, CapA, where A-capacity is associated with a nonlinear elliptic PDE whose structure is modeled on the p-Laplace equation and whose solutions in an open set are called A-harmonic"--