

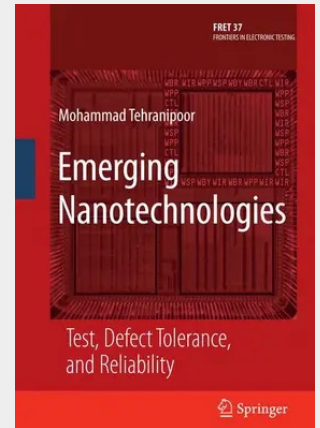
Emerging Nanotechnologies

Test, Defect Tolerance, and Reliability

Emerging Nanotechnologies: Test, Defect Tolerance and Reliability covers various technologies that have been developing over the last decades such as chemically assembled electronic nanotechnology, Quantum-dot Cellular Automata (QCA), and nanowires and carbon nanotubes. Each of these technologies offers various advantages and disadvantages. Some suffer from high power, some work in very low temperatures and some others need indeterministic bottom-up assembly. These emerging technologies are not considered as a direct replacement for CMOS technology and may require a completely new architecture to achieve their functionality.

Emerging Nanotechnologies: Test, Defect Tolerance and Reliability brings all of these issues together in one place for readers and researchers who are interested in this rapidly changing field.

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160,49 €

149,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9780387747460

Medium: Buch

ISBN: 978-0-387-74746-0

Verlag: Humana

Erscheinungstermin: 10.12.2007

Sprache(n): Englisch

Auflage: 2008

Serie: Frontiers in Electronic Testing

Produktform: Gebunden

Gewicht: 799 g

Seiten: 408

Format (B x H): 160 x 241 mm

