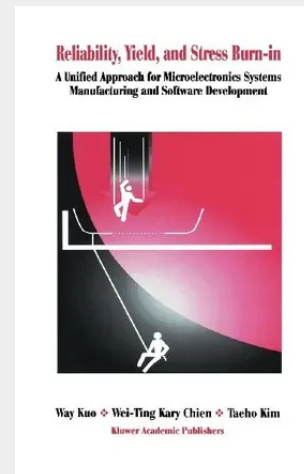


Reliability, Yield, and Stress Burn-In

A Unified Approach for Microelectronics Systems Manufacturing & Software Development

The international market is very competitive for high-tech manufacturers to day. Achieving competitive quality and reliability for products requires leadership from the top, good management practices, effective and efficient operation and maintenance systems, and use of appropriate up-to-date engineering design tools and methods. Furthermore, manufacturing yield and reliability are interrelated. Manufacturing yield depends on the number of defects found during both the manufacturing process and the warranty period, which in turn determines the reliability. The production of microelectronics has evolved into. Since the early 1970's, one of the world's largest manufacturing industries. As a result, an important agenda is the study of reliability issues in fabricating microelectronic products and consequently the systems that employ these products, particularly, the new generation of microelectronics. Such an agenda should include: • the economic impact of employing the microelectronics fabricated by industry, • a study of the relationship between reliability and yield, • the progression toward miniaturization and higher reliability, and • the correctness and complexity of new system designs, which include a very significant portion of software.

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160,49 €

149,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9780792381075

Medium: Buch

ISBN: 978-0-7923-8107-5

Verlag: Humana

Erscheinungstermin: 31.01.1998

Sprache(n): Englisch

Auflage: 1998

Produktform: Gebunden

Gewicht: 1710 g

Seiten: 394

Format (B x H): 160 x 241 mm

