



Green Electronics Manufacturing: Creating Environmental Sensible Products

John X. Wang

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Going "green" is becoming a major component of the mission for electronics manufacturers worldwide. While this goal seems simplistic, it poses daunting dilemmas. Yet, to compete effectively in the global economy, manufacturers must take the initiative to drive this crucial movement. **Green Electronics Manufacturing: Creating Environmental Sensible Products** provides you with a complete reference to design, develop, build, and install an electronic product with special consideration for the product's environmental impacts during its whole life cycle.

The author discusses how to integrate the state-of-the-art technologies of finite element method (FEM) modeling, simulation, and testing to create environmental sensible products of satisfying global environmental regulations, such as Restriction of Hazardous Substances (ROHS) compliance. He covers enabling techniques such as advanced fatigue life modeling, crack propagation analysis, and probabilistic robust design of lead-free electronics. The book also explores how risk engineering methodology empowers practitioners with effective tools such as buckling analysis of tin whiskers.

With its emphasis on reducing parts, rationing materials, and reusing components to make products more efficient to build, green electronics intertwines today's electronics with manufacturing strategies of global sourcing, concurrent engineering, and total quality. Implemented through product and process design, it can help you achieve sustainability to support future generations and at the same time preserve our natural resources. **Green Electronics Manufacturing: Creating Environmental Sensible Products** gives you the tools to create environmental sensible products while maintaining electronics quality and reliability.

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