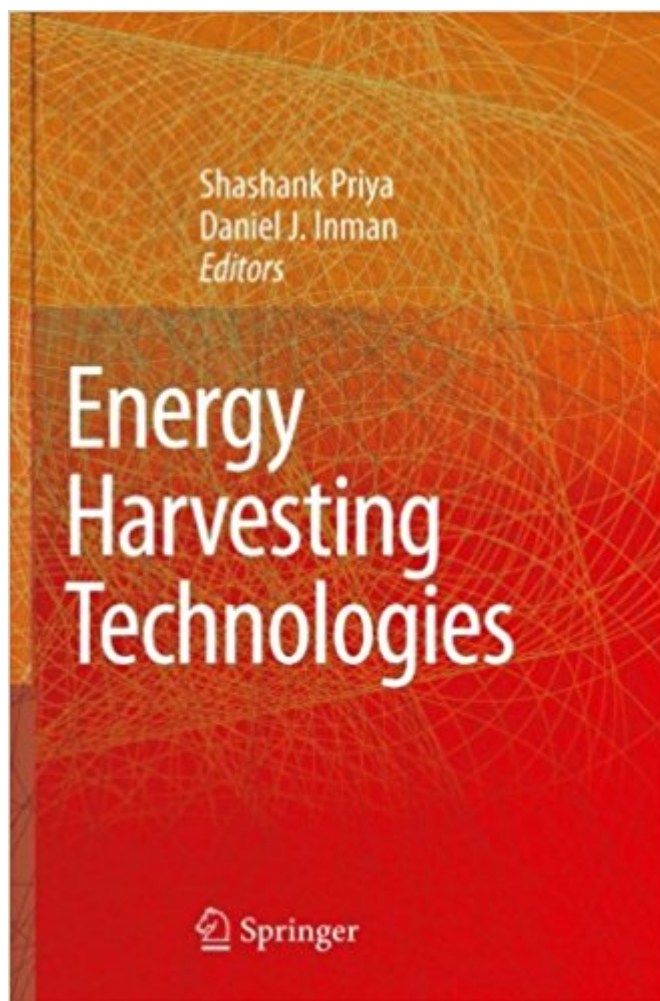




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Energy Harvesting Technologies



Synopsis

This well structured volume discusses basic principles for the design and fabrication of bulk and MEMS-based vibration energy systems, the rules required for fabrication of efficient electronics, and recent findings in thermoelectric energy harvesting systems.

Book Information

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Energy Harvesting Technologies provides a cohesive overview of the fundamentals and current developments in the field of energy harvesting. In a well-organized structure, this volume discusses basic principles for the design and fabrication of bulk and micro-scale energy harvesting systems based upon piezoelectric, electromagnetic and thermoelectric technologies. It provides excellent coverage of theory and design rules required for fabrication of efficient electronics and batteries. In addition, it covers the prominent applications for energy harvesting devices illustrating the state-of-the-art prototypes. Combining leading researchers from both academia and industry onto a single platform, Energy Harvesting Technologies serves as an important reference for researchers, engineers, and students involved with power sources, sensor networks and smart materials.

Excellent overview of various energy harvesting techniques and technologies. The math behind the scenes is presented in a coherent fashion. This is a must read for designers attempting to create energy harvesting based products.

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