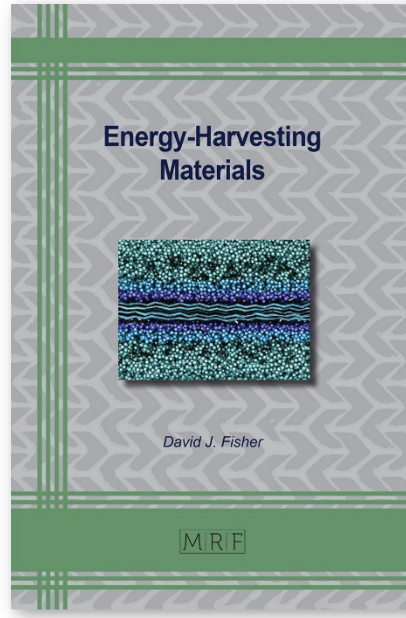
Advanced Book Information

Materials Research
Solid State Physics and Engineering

Energy-Harvesting Materials



David J. Fisher

Monograph / PDF eBook DRM Free

Energy harvesting refers to the derivation of energy from a great number of sources, such as solar energy, wind energy or the kinetic energy.

Keyword: Triboelectric Harvesters, Piezoelectric Harvesters, Waste-heat Harvesting, Vibrational Energy-Harvesting, Microelectromechanical Sensor, Eutectogels for Flexible Electronics, Thermal-Energy Storage, Hydrogen-Storage, Photocatalytic Water-Splitting, Natural Rubber Composites, Dielectric Elastomers, Salinity-Harvesting, Ultra-Strong Nanocomposite Membrane

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Imprint: Materials Research Forum LLC, *Publisher's sales rights are Wordwide*

Summary:

Energy harvesting refers to the derivation of energy from a great number of sources, such as solar energy, wind energy or the kinetic energy that is present in a car in motion and can be recuperated when we step on the brakes. The book presents examples of energy-harvesting which involve only imperceptible effects on the user, or which involve large-scale phenomena where individuals are not involved. The former choice has come to center largely on the use of nanomaterials, piezoelectricity and tribo-electricity to harvest the energy involved in a wide range of everyday activities that encounter vibrations, impacts, etc. The book references 200 original resources with their direct web links for in-depth reading.

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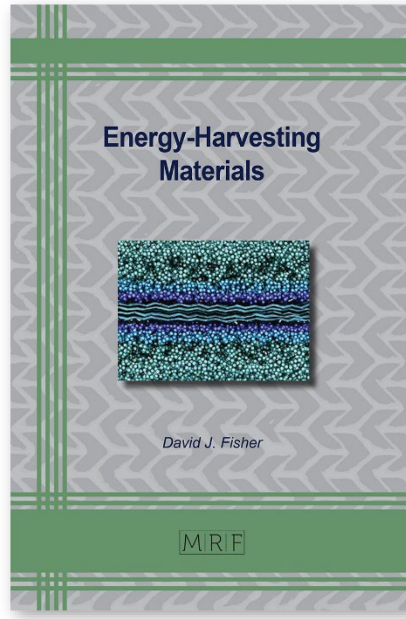

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Monograph / color print, paperback

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