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Nota di contenuto	Intro -- Contents -- About the editors -- Preface -- Part I: Energy harvesting from ambient environments -- 1. Thermal energy harvesting for wireless sensor networks | Sahar Ahmadzadeh -- 1.1 Introduction -- 1.2 Thermal energy harvesting in WSNs: motivation and application scenarios -- 1.3 Energy harvesting techniques in WSNs -- 1.4 Application of thermal energy harvesting in smart cities -- 1.5 Challenges and issues in WSNs -- 1.6 Conclusion -- List of acronyms -- References -- 2. Auxetic designs to improve ambient strain energy harvesting for WSN/IoT | William J.G. Ferguson -- 2.1 Introduction -- 2.2 Review of related works -- 2.3 Auxetic region design and testing -- 2.4 Model commonalities -- 2.5 Re-entrant honeycomb array -- 2.6 For rotating parallelograms -- 2.7 Rotating hexagrams -- 2.8 Rotating triangles -- 2.9 Modelling conclusion -- 2.10 Experimental method -- 2.11 Experimental results and discussion -- 2.12 Future challenges and research opportunities -- 2.13 Conclusion -- List of acronyms -- References -- 3. Energy harvesting from human body | Mostafa G. Abdelmageed and Ahmed M.R. Fath El-Bab -- 3.1 Current trends and challenges in the area -- 3.2 Review of related works and possible

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Sommario/riassunto	The energy efficiency paradigm is a major bottleneck for the development of wireless sensor networks (WSNs) and Internet of Things (IoT) architectures and technologies. This edited book presents comprehensive coverage of energy harvesting sources and techniques that can be used for WSN and IoT systems.