

Piezoelectric energy harvester is an electromechanical device. It captures the environmental vibrations energy and converts it to electrical power. The generated power can energize wireless sensor nodes and tiny electronic devices. This technology is used to design self powered or "battery-less" microelectronic devices which have started to be available in the commercial market. In this work, the design parameters to maximize the power output are investigated. The analytical models and parametric identifications are developed for the piezoelectric bimorph structures. Power analysis to investigate the necessary conditions for optimization is achieved. The simulation results are carried out using PowerSim and Matlab softwares. The experimental work using LabVIEW software validated the main results and highlighted the concluded remarks. This book helps the engineers and researchers who are working in piezoelectric energy harvesting to understand and to develop their applications more effectively.

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