

旋轉機械能量收集系統開發

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摘要

The innovative approach of energy harvesting is to capture fragmented energy and combine the use of micro-electromechanical (MEMS) integration, so that the system is up to the goal of self-sufficiency in power to achieve the circuit as an autonomous system. This study shows that micro-motor not only can be a micro-generator to capture fragmented energy, but also have the ability to capture an instantaneous energy. By using this result, the energy can be captured from uncollected daily rotational mechanical energy in high efficiency and low cost to replace the traditional battery power of wireless sensor and applying to a building to reduce energy waste of wiring, and increase internal aesthetic to achieve wisdom green building goals.

關鍵字：Energy harvesting、Rotation mechanical energy、MEMS