Low-power Power Management Circuit Design for Small Scale Energy Harvesting Using Piezoelectric Cantilevers

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Dissertation submitted to the faculty of the Virginia Polytechnic Institute and State University in partial fulfillment of the requirements for the degree of

> Doctor of Philosophy in Computer Engineering

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- 1. Figure 5, "Energy flow in piezoelectric energy harvesting systems," Junrui Liang and Wei-Hsin Liao, Smart Materials and Structures 20 (2011) 015005 (11pp).
- Figure 3, "An improved analysis of the SSHI interface in piezoelectric energy harvesting,"
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- Figure 6, "Revisit of series-SSHI with comparisons to other interfacing circuits in plezoelectric energy harvesting," I. C. Lien, Y. C. Shu, W. J. Wu, S. M. Shiu and H. C. Lin, Smart Materials and Structures 19 (2010) 125009 (12pp).

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