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| **Title:** | Energy Harvesting from Dual Tone RF Signal using a Double Stage Voltage Rectifier for Wireless Power Transmission | | |
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| **Abstract:** |  |
| Energy harvesting is defined as the extraction of a micro-level of energy from an electromagnetic field. The harvested energy can be used to power up any small devices like sensors. In this paper, we have designed a circuit to harvest energy from a dual-tone signal. To transmit the maximum power from the source to load, an impedance matching network is developed. The output load resistance was optimized to evaluate the maximum efficiency for different RF signals. For RF-DC rectification, a two-stage rectifier was developed by using a non-linear diode model, as linear models are not efficient for RF-DC energy conversion. | |