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| **Title:** | Design a Prototype of Wireless Power Transmission System Using RF/Microwave and Performance Analysis of Implementation | | |
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| **Abstract:** |  |
| A prototype of wireless power transmission (WPT) system has been designed in small scale which can be used to drive portable electronic devices. For power transmitting purpose RF/microwave has been used. A detail discussion on  transmitting and receiving antenna of WPT system has been presented. The step by step design method has been used in designing the entire system. Then, a simple practical approach has been demonstrated. The detail performance on the practical implementation of wireless power transmission system has been analyzed. The 4GHz designed system provides 2W receiving power when the transmitter sends 20W from a distance of 52m. The difficulties and limitations for implementing the designed model in the laboratory have been featured. Then, the ideas for overcoming the limitations also have been proposed. | |