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### Reviewing interests

Radio Frequency x Wireless x Antenna x Circuit Design x FPGA x Machine Learning x AI x

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### Title\*

Experimental Realization of Displacement Current Quasi Wireless Power System

### Track\*

- Engineering, Sciences, Mathematics & Computations
- Humanities and Management

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All submissions must meet the following requirements.

- The submission has not been previously published, nor is it under consideration by another journal (or an explanation has been provided in Comments to the Editor).
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## Experimental Realization of Displacement Current Quasi Wireless Power System

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01 Details

02 Upload Files

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### Submission Details

Please provide the following details to help us manage your submission in our system.

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Title\*

Experimental Realization of Displacement Current Quasi Wireless Power System

Enter Paper title

Keywords

wireless power transfer × RF × Radio Frequency × Electromagnetics × Impedance Matching × IoT ×

Enter six keywords

Abstract\*

**B** *I*  $\times^2$   $\times_2$   

150-200 words  
Abstract

This abstract presents the Experimental Realization of a Displacement Current Quasi Wireless Power System (DC-QWPS), a novel approach for non-contact energy transfer. Unlike conventional inductive or resonant power systems, the DC-QWPS utilizes the concept of displacement current to facilitate power transmission over a conductive metal sheet, leveraging the sheet as a key propagation medium. The energy transfer mechanism relies on the excitation of an evanescent electromagnetic field mode along the surface of the metal. The power transfer is characterized by a significant, exponential decay of the field strength and, consequently, the transferred power, as the receiver moves away from the metallic surface. This dependence is a defining feature of the evanescent mode of transmission. Experimental results demonstrate a robust and efficient power transfer, achieving an efficiency of 80% at a distance of 2 meters from the excitation point. Even at a substantial distance of 14 meters along the metal surface, the system maintains a respectable efficiency of 72%. This realization validates the displacement current principle for creating a practical, quasi-wireless power transfer system suitable for applications where transmission over a conductive platform is feasible.

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**Keywords**  
wireless power transfer RF Radio Frequency Electromagnetics Impedance Matching IoT

**Abstract**  
This abstract presents the Experimental Realization of a Displacement Current Quasi Wireless Power System (DC-QWPS), a novel approach for non-contact energy transfer. Unlike conventional inductive or resonant power systems, the DC-QWPS utilizes the concept of displacement current to facilitate power transmission over a conductive metal sheet, leveraging the sheet as a key propagation medium. The energy transfer mechanism relies on the excitation of an evanescent electromagnetic field mode along the surface of the metal. The power transfer is characterized by a significant, exponential decay of the field strength and, consequently, the transferred power, as the receiver moves away from the metallic surface. This dependence is a defining feature of the evanescent mode of transmission. Experimental results demonstrate a robust and efficient power transfer, achieving an efficiency of 80% at a distance of 2 meters from the excitation point. Even at a substantial distance of 14 meters along the metal surface, the system maintains a respectable efficiency of 72%. This realization validates the displacement current principle for creating a practical, quasi-wireless power transfer system suitable for applications where transmission over a conductive platform is feasible.

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- Presentation
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