

Paper ID:	1571072694
Paper Title:	Anatomical Body Model-Based Simulation of Transcutaneous Capacitive Coupling Wireless Power Transfer for Abdominal Implantable Medical Devices
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Abstract

This study investigated transcutaneous capacitive coupling wireless power transfer (TCC-WPT) for implantable medical devices, aiming to improve patients' QoL. Utilizing numerical electromagnetic field simulations employing an anatomical human model, we analyzed the transmission characteristics between external and implanted electrodes. Additionally, specific absorption rates and maximum received power were calculated to ensure compliance with human safety standards. The results show that the proposed TCC-WPT offers energy-efficient WPT for implantable devices.
