



Wireless Power Transfer Design For Small Implantable Medical Devices

By Jeetkumar Mehta

LAP Lambert Academic Publishing Mrz 2015, 2015. Taschenbuch. Condition: Neu. Neuware - Last few decades has shown tremendous interest and growth in wireless technology. It was Tesla's dream to transfer power wirelessly from one end to other end of the world. Until few decades back it was a topic of interest for few. But this days even major and high tech companies have drawn their attention towards this technology. Apple, Samsung are few of the companies to name who wants to use wireless charging technique for their portable devices. With this work we have tried to explore this wireless technology using magnetic resonance coupling for health care such as implantable devices. The main focus was to start a project to design a receiver that can charge implantable devices such as pacemaker wirelessly. Imagine a patient who doesn't need to undergo heart surgery just to replace batteries for pacemaker, this would turn out to be a boon for humanity. The work has been carried out using software design tool HFSS and also hardware was designed accordingly. Simulation and real time measurements were carried out on pork muscle and compared. Simulation and practical measurements showed close proximity to a greater extent. 64...



READ ONLINE
[9.25 MB]

Reviews

This pdf is definitely not easy to get started on studying but quite entertaining to read through. I am quite late in start reading this one, but better then never. Once you begin to read the book, it is extremely difficult to leave it before concluding.

-- **Ms. Fatima Erdman**

This pdf may be worth acquiring. It is definitely simplified but surprises inside the fifty percent of the pdf. I am pleased to let you know that this is the very best ebook we have read inside my own lifestyle and could be he finest publication for ever.

-- **Prof. Abe Satterfield IV**