

عنوان مقاله:

Contactless Energy Transmission System (CET) Via Magnetic Resonant Coupling At Industrial Applications

محل انتشار:

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خلاصه مقاله:

Recently, an efficient different range contactless energy transfer that uses magnetic resonant coupling, WiTricity, was proposed, and has received much attention due to its practical range and efficiency. There are many promising applications for the ability to transport power over great distances and boundaries without the need for transmission lines. In this paper, Block diagram of contactless energy transmission system are presented, and transformer constructions used in the industry devices based on the pot cores are discussion. As well as basic configuration of CET system with sliding transformers are survey (for linear movement and for circular movement). The energy is transferred using a rotatable air gap transformer and a power electronic converter. Contactless energy transmission is already used in many applications Especially in industry. using a high frequency together with a resonant circuit allow .to enhance the effect of the mutual inductance and to transfer power with an excellent efficiency

کلمات کلیدی:

Contactless energy transmission , magnetic resonance, magnetic coupling, wireless power transfer

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