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(57) Abstract :
Abstract: Wireless charging for electric vehicles (EVs) is a transformative technology that eliminates the need for physical cables, offering a convenient and efficient way to recharge EV batteries. This system utilizes inductive power transfer (IPT) or resonant inductive coupling to transmit energy wirelessly between a charging pad on the ground and a receiver installed in the vehicle. The technology is designed to function safely in diverse environments, providing energy transfer with minimal power loss. Wireless charging enhances user convenience by enabling automated charging without manual intervention, making it particularly advantageous for public charging stations, fleet vehicles, and autonomous EVs. Additionally, dynamic wireless charging systems allow vehicles to recharge while in motion, further extending driving ranges and reducing reliance on stationary charging infrastructure. This innovation supports the widespread adoption of EVs by addressing key challenges such as charging accessibility and efficiency, paving the way for a more sustainable and user-friendly transportation ecosystem.

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