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Open Seminar for Sustainable Humanosphere

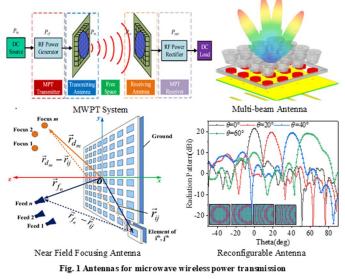
RISH, Kyoto University

Antennas for Microwave wireless power transmission



Microwave wireless power transmission (MWPT) technology, which plays an important role in Space Solar Power Systems (SSPS) and

IoT applications, can convert electrical power into microwave power and wirelessly transmit it into free space through a transmitting antenna, and it is captured by the rectenna and converted into DC power. As one of the most important parts of MWPT, the antenna is the interface between the EM waves propagating in space and the transmitter and receiver. Thus, the antennas with high gain, high efficiency, beam scanning and compact size are urgently desired. In this talk, some types of antennas and arrays withhigh gain, near filed focusing, pattern and beamwidth reconfigurable characteristics and the further application in MWPT will be discussed.



The "open seminar" is a casual research meeting during lunch time on Wednesdays, with the aim of sharing research results, and enhancing collaborations.

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