

# RECTENNAS DESIGN, DEVELOPMENT AND APPLICATIONS

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## ABSTRACT

The present paper describes the development of rectenna in terms of its applications in Microwave Power Transmission, Harmonic Rejection, CP radiation and ISM band. These rectennas consist of several antennas such as dipole, antenna arrays, slot meander line and rhombic loop antennas along with the rectifying diodes. In some cases more than one rectifying devices have also been used and antenna is found to be act as dual bands. It has also found that rectenna reject the harmonics upto 3<sup>rd</sup> order and enhanced the performance characteristics. The maximum efficiency about 91% with 1.2 W of input power has been observed if the rectenna is used for microwave transmission.

## KEYWORDS:

Rectenna, Conversion Efficiency, Band Reject Filter, Voltage Standing Wave Ratio, Industrial-Scientific-Medical Band, Microwave Power Transmission.

## I. INTRODUCTION

The rectenna has been a growing area of research in recent years, as the microwave integrated circuit and monolithic microwave integrated circuit technologies became more mature allowing for high level integration. The rectenna termed as rectifying antenna, is combination of an antenna and a nonlinear rectifying element (Schottky diode, IMPATT diode...etc.) where the two elements are integrated into a single circuit. The schematic of a rectenna system is shown in Fig. 1. Such a system is capable to receive and detect microwave power and converts the RF power into dc voltage at high frequencies (THz).

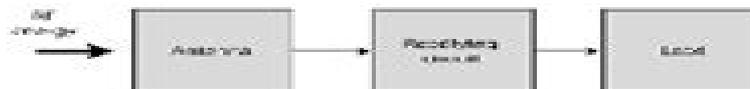


Fig. 1 Schematic rectenna system.

Since the rectenna is a receiving module collecting power from a radiation field, its sensitivity is defined by

$$S_R = \frac{\text{output voltage}}{\text{power density at the antenna}}$$

Division of this value with the effective antenna aperture leads to the normally used quantity for detectors.

$$S_D = \frac{\text{output voltage}}{\text{input power}}$$

This characterizes the nonlinear element with its matching.

A rectenna is useful as the receiving terminal of a power transmission system where dc power needs to be delivered to a load, through free space, for which physical transmission lines are not feasible. It is also suitable in applications where dc power needs to be distributed to more numbers of load elements that are spatially

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