

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 at dual bands. It has also found that rectenna reject the harmonics upto 3rd 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).

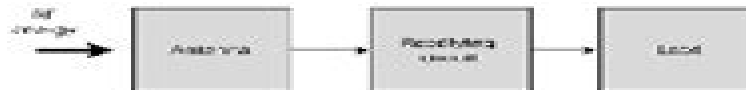


Fig. 1 Schematic rectenna system.

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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Table of Contents Rectennas Design Development And Applications Idc Online

1. Understanding the eBook Rectennas Design Development And Applications Idc Online
 - The Rise of Digital Reading Rectennas Design Development And Applications Idc Online
 - Advantages of eBooks Over Traditional Books
2. Identifying Rectennas Design Development And Applications Idc Online
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Rectennas Design Development And Applications Idc Online
 - User-Friendly Interface

4. Exploring eBook Recommendations from Rectennas Design Development And Applications Idc Online
 - Personalized Recommendations
 - Rectennas Design Development And Applications Idc Online User Reviews and Ratings
 - Rectennas Design Development And Applications Idc Online and Bestseller Lists
5. Accessing Rectennas Design Development And Applications Idc Online Free and Paid eBooks
 - Rectennas Design Development And Applications Idc Online Public Domain eBooks
 - Rectennas Design Development And Applications Idc Online eBook Subscription Services
 - Rectennas Design Development And Applications Idc Online Budget-Friendly Options
6. Navigating Rectennas Design Development And Applications Idc Online eBook Formats
 - ePub, PDF, MOBI, and More
 - Rectennas Design Development And Applications Idc Online Compatibility with Devices
 - Rectennas Design Development And Applications Idc Online Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Rectennas Design Development And Applications Idc Online
 - Highlighting and Note-Taking Rectennas Design Development And Applications Idc Online
 - Interactive Elements Rectennas Design Development And Applications Idc Online
8. Staying Engaged with Rectennas Design Development And Applications Idc Online
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Rectennas Design Development And Applications Idc Online
9. Balancing eBooks and Physical Books Rectennas Design Development And Applications Idc Online
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Rectennas Design Development And Applications Idc Online
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Rectennas Design Development And Applications Idc Online
 - Setting Reading Goals Rectennas Design Development And Applications Idc Online
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Rectennas Design Development And Applications Idc Online
 - Fact-Checking eBook Content of Rectennas Design Development And Applications Idc Online
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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