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Design, Analysis and Applications of Wearable Antennas: A Review

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ABSTRACT Wearable antennas are the vital components for Body Centric Communication (BCC). These antennas have recently gained the attention of researchers and have received a great deal of popularity due to their attractive characteristics and opportunities. They are fundamental in the Wireless Body Area Networks (WBANs) for health care, military, sports, and identification purposes. Compared to traditional antennas, these antennas work in close proximity to the human body, so their performance in terms of return loss, gain, directivity, bandwidth, radiation pattern, efficiency, and Specific Absorption Rate (SAR) is influenced by the coupling and absorption of the human body tissues. Additionally, in the design of these antennas, size, power consumption, and speed can also play a paramount role. In most cases, these antennas are integrated into the clothes, or in some cases, they may be fixed over the skin of the users. When these characteristics are considered, the design of wearable antennas becomes challenging, particularly when textile materials are examined, high conductivity materials are used during the manufacturing process, and various deformation scenarios have an impact on the design's performance. To enhance the overall performance of the wearable antennas and to reduce the backward radiation towards the human body, metamaterial surfaces are introduced that provide a high degree of isolation from the human body and significantly reduce the SAR. This paper discusses the state-of-the-art wearable/textile/flexible antennas integrated with metamaterial structures composed of wearable/flexible substrate materials, with a focus on single and dual band antenna designs. The paper also reviews the critical design issues, various fabrication techniques, and other factors that need to be considered in the design of wearable/textile/flexible antennas. All the designs presented in this work are of the recent developments in wearable technology.

INDEX TERMS BCC, WBAN, SAR, metamaterial, and wearable/textile/flexible antennas

I. INTRODUCTION

Recently, Body Centric Wireless Communication (BCWC) has become one of the most important parts of the fourth generation (4G) mobile communication systems. The fifth generation (5G) is an encouraging technology which will not only fulfil the need of a high data rate for mobile phones and similar devices but also enable incorporation with different high added value services [1]. The IEEE 802.15 standardization group has been established to standardize applications intended for on, off, and in-body communication due to the growing interest in antennas and wave propagation for body centric communication systems [2]. BCWC is a type of communication which is used to connect devices which are worn on or in the body, or between the two people in close proximity. It is further divided into three different categories according to the mean

of communication, they are on-body, in-body and off-body communication [3-5]. On-body communication describes the wireless communication between the body-mounted devices. In-body communication takes place between the base units or mobile devices that are nearby and the body-worn gadgets. The communication between on-body gadgets and medical implants is referred to as in-body communication [6]. Body worn wearable technologies have drawn significant research interest in the past decade because of their functionalities and abilities they can be used in a number of specialized fields that apply body centric communication systems such as in health care industry as a wearable tool to detect the vital health problems of the patients, recovery rooms, clinics, operations theatres, homes, and even on the move. Besides, miniaturized antennas are used in military applications for camera and microphone

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Table of Contents Analysis Of Radomeenclosed Antennas

1. Understanding the eBook Analysis Of Radomeenclosed Antennas
 - The Rise of Digital Reading Analysis Of Radomeenclosed Antennas
 - Advantages of eBooks Over Traditional Books
2. Identifying Analysis Of Radomeenclosed Antennas
 - 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 Analysis Of Radomeenclosed Antennas
 - User-Friendly Interface
4. Exploring eBook Recommendations from Analysis Of Radomeenclosed Antennas
 - Personalized Recommendations
 - Analysis Of Radomeenclosed Antennas User Reviews and Ratings
 - Analysis Of Radomeenclosed Antennas and Bestseller Lists
5. Accessing Analysis Of Radomeenclosed Antennas Free and Paid eBooks
 - Analysis Of Radomeenclosed Antennas Public Domain eBooks
 - Analysis Of Radomeenclosed Antennas eBook Subscription Services
 - Analysis Of Radomeenclosed Antennas Budget-Friendly Options

6. Navigating Analysis Of Radomeenclosed Antennas eBook Formats
 - ePub, PDF, MOBI, and More
 - Analysis Of Radomeenclosed Antennas Compatibility with Devices
 - Analysis Of Radomeenclosed Antennas Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Analysis Of Radomeenclosed Antennas
 - Highlighting and Note-Taking Analysis Of Radomeenclosed Antennas
 - Interactive Elements Analysis Of Radomeenclosed Antennas
8. Staying Engaged with Analysis Of Radomeenclosed Antennas
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Analysis Of Radomeenclosed Antennas
9. Balancing eBooks and Physical Books Analysis Of Radomeenclosed Antennas
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Analysis Of Radomeenclosed Antennas
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Analysis Of Radomeenclosed Antennas
 - Setting Reading Goals Analysis Of Radomeenclosed Antennas
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Analysis Of Radomeenclosed Antennas
 - Fact-Checking eBook Content of Analysis Of Radomeenclosed Antennas
 - 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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