

Microcontroller Based Automatic Switching Types Multi-frequency Electrical Impedance Spectroscopy(EIS) System For Early Detection of Breast Cancer

Shekh Md Mahmudul Islam and Md Adnan Kiber

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Abstract

Breast Cancer is among the top five causes of cancer death and topmost cause among women worldwide. The early diagnosis through simple, non-invasive and inexpensive screening can provide great deal of aid especially for the poor people of Bangladesh. Making diagnostics measurement available to the widely geographically spread population in developing countries is a challenge which is unlikely to be met by the technology used in the west. Multi-frequency Electrical Impedance Spectroscopy is quite attractive in this context as the instrumentation is relatively simple and there is no known health hazard. Electrical Impedance Spectroscopy has been the subject of quite intensive research in breast cancer screening for about 10 years. EIS is a medical imaging technique in which image of the conductivity or permittivity of part of the object is inferred from the surface of the electrical measurement through a set of electrodes. Tissue impedance spectroscopy involves injection of constant current into tissues at different frequencies and measurement of voltage gradients. Automatic switching system is needed for the reliability of the EIS system and automatic switching between electrodes are implemented using digitally controlled analogue switch (MC14551B) and the sequence of switching is controlled by locally available microcontroller ATmega8. This paper focuses on the instrumentation of microcontroller based automatic switching type EIS system for early detection of breast cancer. In this research work EIS system has been designed using function generator, Howland V/I converter, automatic switching system using digitally controlled analogue switch (MC14551B) and the sequence of switching is controlled by microcontroller ATmega8, instrumentation amplifier and Butterworth bandpass filter. In our previous research work the automatic switching between electrodes has not been done but in this research work automatic switching has been implemented using Arduino board microcontroller and Arduino board has been designed. The performance of designed EIS system each section is found to be satisfactory and measurement on resistive components gave an error of 2.2% which indicates that proposed system can be used for breast cancer screening trials.

Keywords: Electrical Impedance Spectroscopy, Multi-frequency, Microcontroller, Instrumentation

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1. INTRODUCTION

AUTHORS INFO

Author 1 *Shekh Md Mahmudul Islam
 e-mail: mahmud_apececadet@yahoo.com
 Address: Department of Applied Physics,
 Electronics & Communication Engineering,
 University of Dhaka

Author 2 Md Adnan Kiber
 e-mail: ma_kiber@yahoo.com
 Address: APECE, DU

*Corresponding author
 e-mail: mahmud_apececadet@yahoo.com

BREAST CANCER is one of the most common cancers and leading cause of cancer death among women worldwide [1][2]. Breast cancer incidence is increasing over the year with more than 1 million reported each year [3]. In addition to that an average 37,300 women died globally in conjunction to the disease [2][4]. As there is no cancer registry system in Bangladesh so we do not have accurate data on this. Like other developed countries the number of patients is increasing day by day in Bangladesh too. The most common form of screening system available to

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Table of Contents Microcontroller Based Automatic Switching Types Multi Frequency

1. Understanding the eBook Microcontroller Based Automatic Switching Types Multi Frequency
 - The Rise of Digital Reading Microcontroller Based Automatic Switching Types Multi Frequency
 - Advantages of eBooks Over Traditional Books
2. Identifying Microcontroller Based Automatic Switching Types Multi Frequency
 - 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 Microcontroller Based Automatic Switching Types Multi Frequency
 - User-Friendly Interface
4. Exploring eBook Recommendations from Microcontroller Based Automatic Switching Types Multi Frequency
 - Personalized Recommendations

- Microcontroller Based Automatic Switching Types Multi Frequency User Reviews and Ratings
- Microcontroller Based Automatic Switching Types Multi Frequency and Bestseller Lists
- 5. Accessing Microcontroller Based Automatic Switching Types Multi Frequency Free and Paid eBooks
 - Microcontroller Based Automatic Switching Types Multi Frequency Public Domain eBooks
 - Microcontroller Based Automatic Switching Types Multi Frequency eBook Subscription Services
 - Microcontroller Based Automatic Switching Types Multi Frequency Budget-Friendly Options
- 6. Navigating Microcontroller Based Automatic Switching Types Multi Frequency eBook Formats
 - ePub, PDF, MOBI, and More
 - Microcontroller Based Automatic Switching Types Multi Frequency Compatibility with Devices
 - Microcontroller Based Automatic Switching Types Multi Frequency Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Microcontroller Based Automatic Switching Types Multi Frequency
 - Highlighting and Note-Taking Microcontroller Based Automatic Switching Types Multi Frequency
 - Interactive Elements Microcontroller Based Automatic Switching Types Multi Frequency
- 8. Staying Engaged with Microcontroller Based Automatic Switching Types Multi Frequency
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Microcontroller Based Automatic Switching Types Multi Frequency
- 9. Balancing eBooks and Physical Books Microcontroller Based Automatic Switching Types Multi Frequency
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Microcontroller Based Automatic Switching Types Multi Frequency
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Microcontroller Based Automatic Switching Types Multi Frequency
 - Setting Reading Goals Microcontroller Based Automatic Switching Types Multi Frequency
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Microcontroller Based Automatic Switching Types Multi Frequency
 - Fact-Checking eBook Content of Microcontroller Based Automatic Switching Types Multi Frequency

- 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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