

measure the MIPS changes caused by hemorrhage or ischemia on rabbits. In particular, we aimed to distinguish two types of stroke through this simple device. But this is just the feasibility study to explore the usefulness of this concept.

2 Methods

2.1 Theory of MIPS technique

In MIPS technique, the measured object is always placed between a transmitting and receiving coil, and the current flow in the transmitting coil induces a primary magnetic field. This primary magnetic field then incurs eddy currents in the object that in turn produce a secondary magnetic field. Both the primary and secondary fields are detected by the receiving coil. The primary and secondary signals (V and ΔV , respectively) can be represented by the phasor diagram shown in Figure 1. As reported in a previous study [22], if the skin depth of the electromagnetic field in the sample is larger than the thickness of the sample, then ΔV is related to V as follows:

$$\Delta V/V = Q\omega\mu_0 [\omega\epsilon_0 (\epsilon_r - 1) - i\sigma] + R(\mu_r - 1),$$

where ω is the signal frequency; σ , ϵ_r , and μ_r are the electrical conductivity, relative permittivity, and relative permeability of the sample, respectively. ϵ_0 and μ_0 are the permittivity and permeability of free space, respectively. Q and R are geometrical constants. Thus, the total signal ($V + \Delta V$) detected by the receiving coil lags the primary signal by an angle φ , which is approximately proportional to ω and σ .

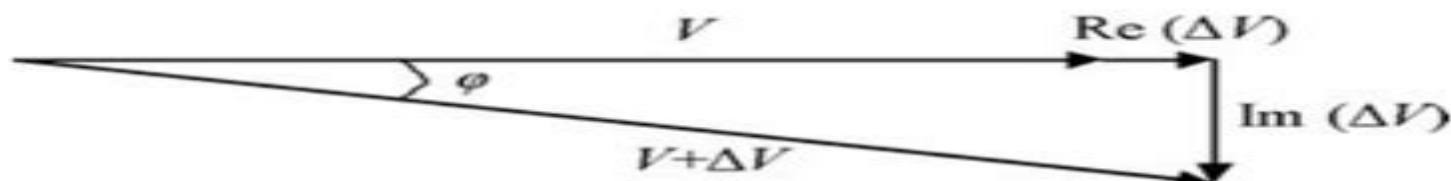


FIGURE 1: Phasor diagram representing the detected primary signal V and secondary signal ΔV ; the total signal ($V + \Delta V$) lags the primary signal by an angle φ

2.2 Detection coil

The MIPS detection coil is illustrated in Figure 2. Two square-shaped coils (one transmitting coil and one receiving coil) of the same size were used for the experiments. Both coils were constructed from 25 turns of copper wire rolled on a square plastic with a side length of $r = 100$ mm. The distance between the center of the coils was $d = 180$ mm. As displayed in Figure 2A, the transmitting coil produced an EMF (solid line) that passed through the test object (red ball), which in turn generated an IMF (dash line). A part of EMF and IMF was received by the receiving coil. The receiving coil could only receive a

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Table of Contents Mathematics Paper Exemplar For Matr

1. Understanding the eBook Mathematics Paper Exemplar For Matr
 - The Rise of Digital Reading Mathematics Paper Exemplar For Matr
 - Advantages of eBooks Over Traditional Books
2. Identifying Mathematics Paper Exemplar For Matr
 - 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 Mathematics Paper Exemplar For Matr
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mathematics Paper Exemplar For Matr
 - Personalized Recommendations
 - Mathematics Paper Exemplar For Matr User Reviews and Ratings
 - Mathematics Paper Exemplar For Matr and Bestseller Lists

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