

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  $\Delta V$ , 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  $\Delta V$  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  $\omega$  is the signal frequency;  $\sigma$ ,  $\epsilon_r$ , and  $\mu_r$  are the electrical conductivity, relative permittivity, and relative permeability of the sample, respectively.  $\epsilon_0$  and  $\mu_0$  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  $\varphi$ , which is approximately proportional to  $\omega$  and  $\sigma$ .

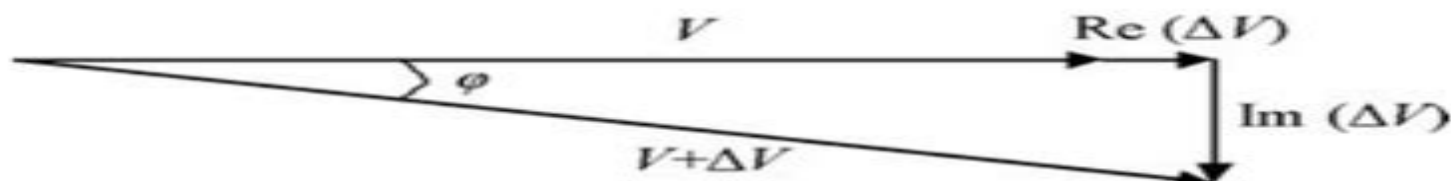


FIGURE 1: Phasor diagram representing the detected primary signal  $V$  and secondary signal  $\Delta V$ ; the total signal ( $V + \Delta V$ ) lags the primary signal by an angle  $\varphi$

### 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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