MEASUREMENT OF BLOOD FLOW USING THE BIO-IMPEDANCE METHOD

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ABSTRACT

The purpose of this project was to study the Non-Invasive Bio-impedance method for blood flow measurement and to design and construct a simplified circuit based on the above method; which would best utilize the theory and data presented.

The procedure followed was to outline the previous invasive methods of blood flow measurement and hence compare them to the Bio-impedance method. The theory and formulae related to the method as well as other information were mentioned to enable the reader to understand the subject more easily.

To comply with the theoritical part a circuit was constructed using simple electronics principles. This circuit was something like a model of the existing circuits in this field.

The results of the practical part were not satisfactory and they showed that the constructed circuit was not suitable. If any progress is to be made, this project should be continued.

The overall conclusions drawn are shown at the end of the project.

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