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the time-varying magnitude of electric fields emanating from the heart. ECG

values are measured

by placing non-

invasive electrodes at

the surface of the

patient ' s skin. For a

3-lead ECG sensor,

the electrodes need

to be placed in a

triangle (Einthoven

Triangle) on the

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patient's chest as
shown in the figure
11.

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provides the tools by
which these

measurements can

be achieved. In later

chapters each of the

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major forms of
biomedical

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in detail, along with

the physiological

basis for the

measurement. The

physiological

measurements

themselves are

summarized

in Appendix B, which

also includes such

measurements as

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system, the electrodes pick up the bioelectrical potential whereas the transducer converts the physiological signal to be measured into a usable electrical output.

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and rhythm of heart
beats, the size and
position of the heart
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heart ' s muscle cells
or conduction

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function of implanted

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electrical conduction

of the heart and its

waveform.

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and healthcare

systems. Abstract:

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is crucial in the

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and healthcare fields

because it forms the
basis of medical

diagnosis, prognosis,

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and evaluation. In
fact, it is known that
"measuring is the
cornerstone of
medical research and
clinical practice" [1].

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such as doctors or
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scientists must have
confidence in the
results reported by
their instruments or
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This means that a biomedical device must operate in the patient's home environment without specialized training, as well as transmit the data wirelessly and securely to the

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physician. This model of continuous patient monitoring not only provides a much more complete assessment of the patient's health, but also reduces the number of visits that a patient has to make to the hospital.

Preface - Principles of
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Designed as a text for the undergraduate students of instrumentation, electrical, electronics and biomedical engineering, it covers the entire range of instruments and their measurement methods used in the medical field. The

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Primary emphasis is laid on the method rather than micro level mechanism.

This book serves two purposes: One is to explain the mechanism and functional details of human body, and the

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Other is to explain how the biological signals of human body can be acquired and used in a successful manner.

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And

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entire range of
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methods used in the medical field. The functions of the biomedical instruments and measurement methods are presented keeping in mind those students who have minimum required knowledge of human physiology. The purpose of this

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New to the second
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chapters of the book
have been
reorganized so that

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the students can understand the concepts in a systematic manner.

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Department at the

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used for non-invasive

medical diagnosis

and therapy,

highlighting why

NIMD is the preferred

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nanometer tissue
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Noninvasive medical
diagnosis (NIMD) is as
old as medical
practice itself. From

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well as the typical
features of its design
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The text will be invaluable to medical electronics students who need a reference material to help them learn how to use competently and confidently the equipment that are important in their field.

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having interest
groups both in
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communities to
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from others by

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