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Biomedical instrumentation

provides the tools by which these

measurements can be achieved. In

later chapters each of the major

forms of biomedical

instrumentation covered in detail, along

with the physiological basis for the

measurements The physiological

measurements themselves are

summarized in Appendix B, which also includes

such information as amplitude and

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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 patient ' s chest as shown in the figure 11. Each corner of the triangle corresponds to one of the limbs: right hand, left hand, left foot.

Biomedical instrumentation and measurement

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Biomedical Instrumentation helps physicians to diagnose the problem and provide treatment. To measure biological signals and to design a medical instrument, concepts of electronics and measurement techniques are needed. Components of Biomedical Instrumentation System Any medical instrument consists of the following functional basic parts:

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## Biomedical Instrumentation | Electrical4U

“ Biomedical instruments ” refer to a very broad class of devices and systems. A biomedical instrument is an ECG machine to many people. To others, it ’ s a chemical biosensor, and to some it ’ s a medical imaging system. Current estimates place the worldwide market for biomedical instruments at over \$200 billion.

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## Measurement Systems In a

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

### Biomedical Instrumentation Systems

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motion of the diaphragm is then measured in terms of an electrical signal. The deformation is measured by a strain gauge or LVDT.

Types of Transducers used in Biomedical Measurement ...

Traditionally, most of these instruments and devices have been located in a hospital, and patients travel to the clinics for the measurements to be performed by trained personnel.

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