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interfering signals; the
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through the body, and
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surrounding the
powering of these
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Preface - Principles of
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Instrumentation

It involves

measurement of
biological signals like
ECG, EMG, or any

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Solutions

electrical signals
generated in the
human body.

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Instrumentation helps
physicians to
diagnose the problem
and provide
treatment. To
measure biological
signals and to design
a medical instrument,
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measurement techniques are needed. Components of Biomedical Instrumentation System

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of instrument must match □ Measurement needs (environmental conditions, safety, reliability, etc) □

Instrument performance (speed, power, resolution, range, etc) □ A medical device is □ □ any item promoted for a medical purpose that does not rely on chemical action

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educate future

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to measure biomedical variables, such as arterial blood pressure, blood flow, temperature and CO₂ concentration in exhaled air and their transduction to an electrical variable, such as voltage, so they can be more easily quantified ...

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