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will agreed  
discover a extra  
experience and

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spending more  
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when? get you  
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you attempt to  
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something basic

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instrumentation  
provides the  
tools by which  
these  
measurements can  
be achieved. In  
later chapters  
each of the

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major forms of

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ument covered in

detail, along

with the

physiological

basis for the

measureis tion

The

physiological

measurements

themselves are

summarized

involved. ments

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in Appendix B,  
which also  
includes such  
information as  
amplitude and  
frequency variables

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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

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Instrumentation 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,

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## And **Biomedical Instrumentation and measurement**

Biomedical  
Instrumentation  
helps physicians  
to diagnose the  
problem and  
provide  
treatment. To  
measure  
biological

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signals and to  
design a medical

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concepts of

electronics and

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techniques are

needed.

Components of

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System Any

medical

instrument

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**Instrumentation**  
consists of the  
following  
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parts:

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Amplifier for  
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“Biomedical  
instruments”  
refer to a very  
broad class of  
devices and  
systems. A

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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

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Instrumentation  
over \$200  
billion.

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Functions of  
Signal

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system, the  
electrodes pick  
up the  
bioelectrical  
potential  
whereas the  
transducer  
converts the

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physiological  
signal to be  
measured into a  
usable  
electrical  
output.

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A2: It involves  
measurement of  
biological  
signals like  
ECG, EMG, or any  
electrical

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signals generated in the human body. To diagnose the

problem and to

provide

treatment

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physicians.

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techniques are  
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The basic  
principle behind  
these pressure  
transducers is

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Instrumentation to

be measured is

applied to a

flexible

diaphragm which

gets deformed by

the action of

the pressure

exerted on it.

This motion of

the diaphragm is

then measured in

terms of an

electrical

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Instrumentation  
signal. The  
deformation is  
measured by a  
strain gauge or  
LVDT.

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**Types of**

**Transducers used  
in Biomedical  
Measurement ...**

Traditionally,  
most of these  
instruments and  
devices have

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been located in  
a hospital, and  
patients travel  
to the clinics  
for the  
measurements to  
be performed by  
trained  
personnel.

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Analyze, design,

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operational

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amplifier and  
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amplifier  
circuits to  
amplify  
biosignals.  
Analyze, design,  
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filter circuits  
to filter  
unwanted signals  
from biosignals.

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of objective  
questions which  
mainly targets

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prepare for the  
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