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~~SONOMETER PART - 1~~ To find

the frequency of the AC

mains with a sonometer. Link

in the Description

below. Practical 7 Determine

*Frequency Ac Mains Using*

Steps 1 to 4 of Experiment

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10. Keeping the main switch off, connect the secondary of the step down transformer to the sonometer wire to pass a low... Put the main switch on. The current imposes its frequency on the soft iron wire. Take a horse

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shoe magnet and hold it over  
the middle of the wire AB

...

*To Find the Frequency of the  
AC Mains With a Sonometer*

...

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Sonometer is used to find frequency of A.C. with the help of electromagnet.

*Frequency Of A.C. Mains*

*Using Sonometer - YouTube*

In this video you will get complete information about

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Sonometer (Calculation of  
frequency of A.C mains) LIKE

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Formula Used: The frequency

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of A.C mains is determined  
by formula for fundamental  
frequency of stretched  
string which is given by:  $m$   
 $T \frac{1}{n} \cdot 2 \frac{1}{l} = (1)$  Where  $l =$   
length of the sonometer wire  
between the two bridges when  
it is thrown into resonant

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vibrations.  $T =$  tension  
applied to the wire  $= Mg$ ,  $m =$   
mass per unit length of the  
wire  $= r^2 \pi \rho$ .

*Frequency of A.C. mains  
using Sonometer*

Date: 1 FREQUENCY OF AC

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**SUPPLY SONOMETER Aim:** To determine the frequency of AC supply using sonometer  
**Apparatus:** Sonometer with non-magnetic wire, two bar magnets, step-down transformer of 6-8 volts, a set of weights, a screw

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guage and a meter scale \_\_\_\_\_

Formula:  $n = \frac{1}{2l} \sqrt{T/m}$  Hz

The frequency of AC mains is given by the above formula

*Determine Frequency Ac Mains  
Using Sonometer | rollmeup*

...

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In this project, I explain how to measure the AC mains frequency using sonometer and electromagnet in the lab. Basically the frequency  $f$  of a stretched string depends upon the length of the string  $l$ , the tension  $T$ ,

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Maine Using Sonometer  
and the mass per unit length  
m. Defined by relation  
 $f = \frac{1}{2l} \sqrt{T/m}$ .

*How to measure the AC source  
frequency using sonometer  
and ...*

To determine frequency of AC



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**Mains Using Sonometer** and  
a magnet The graph between  
mass  $M$  of the suspended  
weights and square of the  
resonating length  $l^2$  by  
taking  $M$  along X-axis and  $l^2$   
along Y-axis is drawn.

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*FREQUENCY OF AC MAINS USING  
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A sonometer is used to determine the frequency of alternating current. A step down transformer is used for the determination of frequency of A.C. because

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the voltage of the A.C. mains is 220V, which is dangerous. The step down transformer reduces this voltage to 6 volts.

*To determine the frequency of alternating current using*

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a . . . determine frequency of a.c. mains using electric vibrator. how to use vernier calipers. acceleration due to gravity. newton's rings. refractive index of the prism. measuring the

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1. For each set, calculate  
the value of  $n$  using the

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formula given above. Find the mean of these values. 2. Plot a graph of  $\frac{1}{T^2}$  against  $T$  with  $\frac{1}{T^2}$  on y-axis and  $T$  on x-axis. Determine the slope of the graph. Using the value of the slope determine the frequency of

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alternating current. RESULT  
1. The graph between  $T$  and  $l$   
2 is a straight line. 2 ...

*EXPERIMENT - NCERT*

Study of determine Frequency  
of AC Mains using Melde's  
Electrical Vibrator; More

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Divergence of LASER

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*Meldes Electrical Vibrator  
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Equipment*

A sonometer is used to  
determine the frequency of  
alternating current. A step

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Mains transformer is used for the determination of frequency of A.C. because the voltage of the A.C. mains is 220V, which is dangerous. The step down transformer reduces this voltage to 6 volts.

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*Theory & Procedure, AC  
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Frequency (7) Using equation  
(6) and (7) we can calculate  
the frequency of  
electrically maintained

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tuning fork in two different modes of vibration. In transverse drive mode the string follows the motion of the tuning fork, up and down, once up and once down per cycle of tuning fork vibration.

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*Melde's String Apparatus  
(Theory) : Harmonic Motion  
and ...*

With direct current, it's  
easy to determine the  
voltage that's present  
between two points in an

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electronic circuit: You simply measure the voltage with a voltmeter. With alternating current, however, measuring the voltage isn't so simple. That's because the voltage in an alternating current

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Mains Using Sonometer  
circuit is constantly  
changing. There are actually  
three ways you can [...]

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How to Measure Alternating  
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how to determine peak voltage and frequency from oscilloscope screenshots. Revise the calculation of r.m.s. and peak values.

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is used to determine the  
frequency of alternating  
current. A step down  
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of A.C. because the voltage  
of the A.C. mains is 220V,  
which is dangerous. The step  
down transformer reduces  
this voltage to 6 volts.

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Download File PDF Determine  
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Sonometer determine if your  
generator is operating at  
the correct frequency. Some  
sophisticated DVMS such as  
the advanced Fluke meters  
will read frequency

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directly. HOW TO DETERMINE  
FREQUENCY OF AN AC GENERATOR  
(alternator) A sonometer is  
used to determine the  
frequency of alternating  
current.

*Determine Frequency Ac Mains*  
*Page 44/47*

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Using Sonometer step down  
transformer is used for the  
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of the A.C. mains is 220V,  
which is dangerous. The step

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down transformer reduces  
this voltage to 6 volts.

Determine Frequency Ac Mains  
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