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Elements of electrical engineering (on photo: ABB MACH control and protection system) The figure show two systems of connections of resistances. In star or 'Y' connection there is a common point for all the three resistors, and in delta or mesh connection the three are connected in series to form the loop and the junctions are

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Current and voltage  
dividers, resistors,  
capacitors, inductors,  
node voltage and mesh  
current analysis of  
circuits, Thevenin and  
Norton equivalents, AC  
circuits, phasors,  
impedance,  
electromagnetic fields,  
electric power,

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transformers, magnetic materials, generators and motors, operational amplifiers, elements of digital circuits, sensors and measurements of physical quantities.

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Electrical elements are conceptual abstractions representing idealized

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electrical components, such as resistors, capacitors, and inductors, used in the analysis of electrical networks. All electrical networks can be analyzed as multiple electrical elements interconnected by wires. Where the elements roughly correspond to real components, the representation can be in the form of a schematic diagram or

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circuit diagram. This is  
called a lumped-  
element circuit model.  
In other cases,  
infinitesimal el

## **Electrical element - Wikipedia**

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1.Introduction to  
Electrical Energy:  
Definitions of magnetic  
circuit, Reluctance,  
Magneto- motive  
force), magnetic flux,  
Simple problems on



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magnetic circuits,  
Hysteresis, Characters  
and loss calculations,  
Faraday's laws of  
Electromagnetic  
Induction, Induced  
E.M.F.,

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Engineering - Dec  
2015. First Year  
Engineering (Semester  
1) TOTAL MARKS: 100  
TOTAL TIME: 3 HOURS  
(1) Question 1 is  
compulsory. (2)  
Attempt any four from  
the remaining  
questions. (3) Assume  
data wherever

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required.

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...

Define Electric field, lines of force, electric field intensity, electric flux, flux density and permittivity. Capacitor, charging and discharging phenomena of capacitors and calculations of

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capacitance for  
capacitors connected  
in series and parallel  
circuits. 4.

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an ability to develop  
and conduct  
appropriate  
experimentation,  
analyze and interpret  
data, and use  
engineering judgment  
to draw conclusions; an  
ability to acquire and

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apply new knowledge  
as needed, using  
appropriate learning  
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U.A.Bakshi Limited

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Common terms and  
phrases. air gap

alternating quantity

angle applied average

battery branch cable

Calculate called

capacitance capacitor

carrying cell charge

circuit coil combination

conductor connected

Consider constant core

curve cycle defined

delta depends ...

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**U.A.Bakshi, V.U ...**

6 Elements of Electrical  
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piece is of steel, when  
the current is stopped  
and the bar be

removed, it becomes a  
permanent magnet. If

the piece is of soft iron,  
it will be a strong

magnet. 1.8

Applications of

Electromagnets :

Electro magnets are

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widely used in  
Industries and also in  
many situations in  
daily life.

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is concerned with the  
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utilization of electrical  
energy and the  
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