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Capacitor problems and solutions 1.
Three capacitors, $C_1 = 2 \mu\text{F}$, $C_2 = 4 \mu\text{F}$, $C_3 = 4 \mu\text{F}$, are connected in series and parallel. Determine the capacitance of a single capacitor that will have the same effect

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combination. 6
Common Problems
of Capacitors

...

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Capacitor $C_2 =$

$4 \mu F$. Capacitor

$C_3 = 4 \mu F$.

Wanted : The

equivalent

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Capacitor (C)

Solution :

Capacitor C_2
and C_3

connected in
parallel. The
equivalent

capacitance : C

$$C_P = C_2 + C_3 = 4 + 4 = 8 \mu F.$$

Capacitor C_1
and C_P

connected in
series. The

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Equivalent

capacitance :

$$1/C = 1/C_1 + 1/C_2$$

$$1/C = 1/4 + 1/8$$

$$= 2/8 + 1/8 =$$

$$3/8 \therefore C = 8/3 \mu$$

F

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Solutions 1

(easy) Determine

the amount of

charge stored on

either plate of

a capacitor

(4×10^{-6} F) when

connected across

a 12 volt

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battery $C = Q/V$

$4 \times 10^{-6} = Q/12$ Q

$= 48 \times 10^{-6} \text{ C}$

(easy) If the plate separation for a capacitor is

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Solutions. 1.
(easy) Determine the amount of charge stored on either plate of a capacitor (4×10^{-6} F) when connected across a 12 volt battery. $C = Q/V$
 $4 \times 10^{-6} = Q/12$ $Q = 48 \times 10^{-6}$ C. 2.
(easy) If the plate separation

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for a capacitor
is 2.0×10^{-3} m,
determine the
area of the
plates if the
capacitance is
exactly 1 F. $C =$
 $\epsilon_0 A/d$

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charge stored on
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a capacitor

(4×10^{-6} F) when
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a 12 volt
battery. $C = Q/V$
 $4 \times 10^{-6} = Q/12$ Q
 $= 48 \times 10^{-6}$ C. 2.

(easy) If the
plate separation
for a capacitor
is 2.0×10^{-3} m,
determine the
area of the
plates if the
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Capacitors and
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Solution. The
capacitors $1\ \mu\text{F}$
and $3\ \mu\text{F}$ are
connected in

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parallel and $6\mu\text{F}$ and $2\mu\text{F}$ are also separately connected in parallel. So these parallel combinations reduced to equivalent single capacitances in their respective positions, as shown in the

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figure (b). C_{eq}
 $= 1\mu\text{F} + 3\mu\text{F} =$
 $4\mu\text{F}$. $C_{eq} = 6\mu\text{F} +$
 $2\mu\text{F} = 8\mu\text{F}$.

Capacitors and
Capacitance:
Solved Example
Problems

Problem 86. The
charge on the
capacitor is .
What is the
capacitance of

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Capacitor (see
figure)?

Problems And
Solutions .

Problem 87. Find
the energy
stored in the
system of
capacitors shown
in the figure.

Solution .

Problem 88. Two
 $1.0 \text{ cm} \times 1.0 \text{ cm}$
metal electrodes
are spaced 0.5

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Capacitor and are connected to 12 V battery. What are the charges on each electrode and the potential difference between them?

Solution .

Problem 89.

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Electricity:
capacitors

There are no
changing in area
and plates
separation
distance of
capacitor, so
then the new
capacitance is
Problem 5 Given
a parallel plate-
capacitor of
1200 μF in

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vacuum. If the area of capacitor plates are doubled and the separation between two plates is 1.5 times the original, find the new capacitance of the capacitor!
Answer Problem 6

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Hint:

Capacitance.

When capacitors
are connected in
parallel the
total

capacitance is
equal to the sum
of the single

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Capacitances. C

$$= C_1 + C_2 + C_3.$$

When connected in series the reciprocal value of total capacitance is equal to the sum of reciprocal values of the single

capacitances. $\frac{1}{C}$

$$= \frac{1}{C_1} + \frac{1}{C_2}$$

$$+ \frac{1}{C_3}.$$

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questions. This
is the currently
selected item.

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the amount of charge stored on either plate of a capacitor

(4×10^{-6} F) when connected across a 12 volt

battery. $C = Q/V$

$$4 \times 10^{-6} = Q/12 \quad Q$$

$$= 48 \times 10^{-6} \text{ C. 2.}$$

(easy) If the plate separation for a capacitor is 2.0×10^{-3} m,

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determine the
area of

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Problem #1. An
air-filled
parallel-plate
capacitor has a
capacitance of
1.3 pF. The
separation of
the plates is

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Capacitor, and wax is inserted between them.

The new capacitance is 2.6 pF. Find the dielectric constant of the wax.

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- 3Q, 4Q, 6Q,
3P, 5P, 7P, 10P,
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Overview •

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Electric charge
stored in

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Capacitor –
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solutions. 1.

Determine the
charge in
capacitor C 5.

Known :

Capacitor 1 (C
1) = 6 F.

Capacitor 2 (C
2) = 6 F.

Capacitor 3 (C
3) = 3 F.

Capacitor 4 (C

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4) = 12 F.

Capacitor 5 (C

5) = 6 F.

Voltage (V) = 12

Volt. Wanted :

Charge in

capacitor (C 5)

Solution : C apa

c itor.

Capacitor C 2

and capacitor C

3 are connected

in series.

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stored in
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(easy) If the plate separation for a capacitor is Capacitor

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Solutions. 1.
(easy) A
parallel plate

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Capacitor is filled with an insulating material with a dielectric constant of 2.6. The distance between the plates of the capacitor is 0.0002 m. Find the plate area if the new capacitance

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(after the insertion of the dielectric) is $3.4 \mu\text{F}$. $C = k\epsilon_0 A/d$.

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Solutions ...

$$N = q/VC = 1.00$$

$$C/(1.00 \times 10^{-6}$$

$$\text{F} \times 110 \text{ V}) =$$

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9091 capacitors
Problem #2 Each
of the uncharged
capacitors in
Fig. 01 has a
capacitance of
 $25.0 \mu\text{F}$. A
potential
difference of V
 $= 4200 \text{ V}$ is
established when
the switch is
closed. How many
coulombs of

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Charge then pass
through meter A?

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stored in
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Calculate the

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Capacitor
capacitance in
micro-Farads
(μF) of the
following
capacitors when
they are
connected
together in a
parallel
combination: two
capacitors each
with a
capacitance of

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47nF. one capacitor of 470nF connected in parallel to a capacitor of 1uF.

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PROBLEM 26-34P:
An air-filled
parallel-plate

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