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Chapter 25

Capacitance and

physics of dielectric

Masatsugu Sei Suzuki

Department of Physics,

SUNY at Binghamton

(Date: July 12, 2019)

Capacitance (F) $1 \text{ F} = 1$

C/V $1 \text{ F} = 10^{-6} \text{ F}$ (:

micro) $1 \text{ nF} = 10^{-9} \text{ F}$

(n: nano) $1 \text{ pF} = 10^{-12}$

F (p: pico) $1 \text{ fF} = 10^{-15}$

F (f: femto) $1 \text{ aF} =$

10^{-18} F (a: atto) 1.

Parallel plate

capacitance $V = Ed$ $A = Q/\epsilon_0 E$

$0 = 0$

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Chapter 25 Capacitance and physics of dielectric Masatsugu ...

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portion of the chapter covers the topic like determining capacitance, a combination of capacitance, capacitance in parallel and in series, energy stored in an electric field, a capacitor with a dielectric and Gauss's Law.

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PHY2049: Chapter 25 7

Capacitance

calculation 2: coaxial
cylinders r_L q $\pi\epsilon$ E 2 0

$$1 = \int \int + - = - \cdot = b a r$$
$$dr L q \pi\epsilon V d 2 0 1 E s$$

Gauss' law Solve for E
[capacitance] $= \epsilon_0$

[length] Depends only
weakly on radii Inner

conductor cannot be
approximated to be
line with no thickness.

Then $C = \infty$. Ignore
ends, approximating
cylinder to be infinitely

long

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Chapter 25: Capacitance - Department of Physics

Physics 4B . Chapter
25: Capacitance “The
answers you receive
depend upon the
questions you ask.” –
Thomas Kuhn “Life is a
mirror and will reflect
back to the thinker
what he thinks into it. ”
– Ernest Holmes “What
we see depends mainly
on what we look for.” –

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John Lubbock .

Reading: pages 656 -
674 . Outline: ⇒
capacitors .
introduction

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Chapter 25

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(n: nano)

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CAPACITANCE AND
DIELECTRICS §25-T

Thus the capacitance
of a sphere is
proportional to its
radius. The mks unit of
capacitance is called
the. farad. in honor of
Michael Faraday (1791
1867). The quantity.

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ϵ_0 is often stated in units of farads per meter, as $\epsilon_0 = 8.85 \times 10^{-12}$ farad/m, for consistency with Equation (25-2).

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Chapter 8 Momentum-
Chapter 9 Rotation;
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Chapter 24 2290 (a)
The capacitor $2C_0$ has
twice the charge of the
other capacitor.(b) The
voltage across each
capacitor is the
same.(c) The energy
stored by each
capacitor is the
same.(d) The

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equivalent capacitance
is $3C_0$.(e) The

equivalent capacitance
is $2C_0/3$.(a)

False.Capacitors
connected in series
carry the same charge
 Q . (b) False.The
voltage V across a
capacitor whose
capacitance is C_0 ...

Chapter 24 **Capacitance**

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the concept very well.

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25-1 What Is Physics?

One goal of physics is to provide the basic science for practical devices designed by engineers. The focus of this chapter is on one extremely common

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example—the capacitor, a device in which electrical energy can be stored. For example, the batteries in a camera store energy in the photoflash unit by charging a capacitor.

Chapter 25 Capacitance - Fundamentals of Physics [Book]

3/25/2019 1 FOR
SCIENTISTS AND
ENGINEERS A

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25: Electric Potential;

26: Capacitance and

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Law; VI. Circuits. 30:

DC Circuits; 31: AC

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Circuits; VII. Optics. 32:
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capacitance of the
combination of the two
capacitors is less than
the capacitance of
either of the
capacitors. ... Chapter
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maximize the
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fixed to create this
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