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Chapter 18

# **Electrical Energy And Capacitance Chapter 18**

***Voltage, Electric Energy, and***

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Chapter 18

**Capacitors: Crash Course Physics  
#27 Capacitor Tutorial, Basic  
Introduction, Capacitance  
Explained - How it works,  
Dielectrics, Physics Energy stored  
in a capacitor. (Chap 2, Class 12)  
Electrostatic Potential and  
Capacitance 04 : Potential due to**

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***Charged Spheres JEE MAINS/NEET  
Electric Potential \u0026amp; Electric  
Potential Energy Physics Problems  
8.02x - Lect 4 - Electrostatic  
Potential, Electric Energy,  
Equipotential Surfaces Electrostatic  
Potential and Capacitance 10 :  
CAPACITOR-2 : Parallel Plate***

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**Capacitor JEE MAINS/NEET Energy  
of a capacitor | Circuits | Physics |  
Khan Academy Electric potential  
energy | Electrostatics | Electrical  
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Physics book 2, Ch 12  
Electrostatics - Electric Potential -  
12th Class Physics Electrostatic**

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**Potential n Capacitance 11 : Series  
and Parallel Combination Of  
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Potential: Visualizing Voltage with  
3D animations Capacitors and  
capacitance | Circuits | Physics |  
Khan Academy Electric Current:  
Crash Course Physics #28 TRICK~~**

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~~TO SOLVE COMPLEX CIRCUIT OF  
SYMMETRY (1) Organic Chemistry  
????? ??? ???? ??? ? How to Start  
Class 12th Organic Chemistry I  
Physics part II chapter 12 Capacitor  
Electric Potential, Current, and  
Resistance Potential, Potential  
Difference, and Voltage Resistors~~

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~~and Capacitors Capacitors - A Level  
Physics 12.13 Capacitor  
Electrostatic Potential and  
Capacitance 06 : Equipotential  
Surfaces JEE MAINS/NEET  
Electrostatic Potential and  
capacitance | Plus two physics  
malayalam | chapter 2 | ?????? ??~~

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~~?????????/ Formulas - Chap 2-~~

~~Electrostatic potential and~~

~~capacitance. :-D Electric Energy~~

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***Electrostatic Potential ~~Electrical~~  
~~Energy And Capacitance Chapter~~  
Chapter 16 Electrical Energy and  
Capacitance Quick Quizzes 1. (b).  
The field exerts a force on the  
electron, causing it to accelerate in  
the direction opposite to that of the  
field. In this process, electrical***

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## Chapter 18

*potential energy is converted into kinetic energy of the electron. Note that the electron moves to a region of higher potential, but*

~~**Chapter 16 Electrical Energy and Capacitance**~~

**Capacitors store electrical energy.**

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***That amount of energy is the same as the magnitude of work required to move charge,  $Q$ , onto the plates of the capacitor. When a capacitor discharges, it releases the energy (sparks). Find out how much work is required to charge a capacitor.***

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~~Chapter 16~~ **Electrical Energy  
Capacitance**

**42 Chapter 16 1. A 2. B 3. C 4. D 5. A  
and C 6. None of the above 7.**

**Cannot be determined Commentary  
Purpose: To develop the concept of  
work in the context of simple  
charge con? gurations. Discussion:**

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***According to the work-energy theorem, the work required to move a charge in an electric field is equal to the change in its electrostatic potential energy between the initial and final points.***

**~~Electrical Energy and Capacitance~~**

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### **Chapter 16 Electrical Energy and Capacitance Problem Solutions 16.1**

**(a) The work done is  $W = F \times s \cos \theta = (qE) \times s \cos \theta$ , or  $W = (1.60 \cdot 10^{-19} \text{ C}) (200 \text{ N/C}) (2.00 \cdot 10^{-2} \text{ m}) \cos 0^\circ = 6.40 \cdot 10^{-19} \text{ J}$  (b) The change in the electrical potential energy is  $6.40 \cdot 10^{-19} \text{ J}$  PE e W D = - = - .-** (c) The

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*change in the electrical potential is*

~~*Chapter 16 Electrical Energy and  
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*Electrical Energy and Capacitance*

*37 Answers to Even Numbered*

*Conceptual Questions 2. Changing  
the area will change the*

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***capacitance and maximum charge but not the maximum voltage. The question does not allow you to increase the plate separation. You can increase the maximum operating voltage by inserting a material with higher dielectric***



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***Electric Potential, Electric Potential  
Energy and Capacitance Chapter 18  
2 Electric Potential Energy  
Conservation of Energy Potential of  
Point Charges Equipotential  
Surfaces Capacitance & Capacitors  
Electric Potential Energy Part 1 4  
Energy: Definitions Webster's***

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***dictionary: Energy– the capacity to do work Work– the transfer of energy***

**~~*Electric Potential, Electric Potential Energy and Capacitance*~~**

***All the capacitors have the same charge and the equivalent***

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***capacitance is less than the capacitance of any of the individual capacitors in the group and the largest potential difference appears across the capacitor with the smallest capacitance***

**~~Electrical Energy And Capacitance~~**

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~~(16) - ProProfs Quiz~~

**Chapter 24 Capacitance, Dielectrics,  
Electric Energy Storage. Educators.  
kj Chapter Questions. 02:16 ... (Hint:  
See Example 10 of "Capacitance,  
Dielectrics, Electric Energy  
Storage.") Check back soon! 05:09.  
Problem 92 Consider the use of**

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***capacitors as memory cells. A charged capacitor would represent a one and an uncharged capacitor a zero.***

**~~Capacitance, Dielectrics, Electric Energy Storage...~~**

***Electrostatic Potential and***

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**Capacitance Class 12 Notes**

**Chapter 2. 1. Electrostatic Potential**

***The electrostatic potential at any point in an electric field is equal to the amount of work done per unit positive test charge or in bringing the unit positive test charge from infinite to that point, against the***



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***electrostatic force without acceleration. NOTE: Electrostatic potential is a state dependent function as electrostatic forces are conservative forces.***

**~~Electrostatic Potential and  
Capacitance Class 12 Notes ...~~**

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***Kerala Plus Two Physics Notes  
Chapter 2 Electric Potential and  
Capacitance. Introduction The  
electric field strength is a vector  
quantity, while electric potential is a  
scalar quantity. Both these  
quantities are inter related.  
Electrostatic Potential. 1.***

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~~**Plus Two Physics Notes Chapter 2  
Electric Potential and ...**~~

**Title: Chapter 18 Electrical energy  
and Capacitance 1 Chapter 18  
Electrical energy and Capacitance 2  
Todays Topics. Electric Potential  
Energy ; Electric Potential ; Electric**

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***Equi-potential Lines ; 3 Work. You do work when you push an object up a hill ; The longer the hill the more work you do more distance ; The steeper the hill the more work you do more force***

**~~PPT – Chapter 18 Electrical energy~~**

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## ~~Chapter 18 and Capacitance ...~~

***So, how do those defibrillators you see on TV actually work? Surprise! Physics can explain! Okay buckle up, everyone! Today, Shini has the task of breaking d...***

**~~Voltage, Electric Energy, and~~**

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~~Capacitors: Crash Course ...~~

**Capacitance  $C$  is the amount of charge stored per volt, or  $C = Q/V$ .  $C = Q/V$  The unit of capacitance is the farad (F), named for Michael Faraday (1791–1867), an English scientist who contributed to the fields of electromagnetism and**

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## Chapter 18

*electrochemistry. Since capacitance is charge per unit voltage, we see that a farad is a coulomb per volt, or*

~~**Capacitors and Dielectrics | Physics**~~

**CAPACITANCE SECTION I**

**ELECTROSTATIC POTENTIAL**

**ELECTRIC FIELD IS**

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## Chapter 18

***CONSERVATIVE*** *In an electric field work done by the electric field in moving a unit positive charge from one point to the other, depends only on the position of those two points and does not depend on the path joining them.*

**ELECTROSTATIC POTENTIAL**



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~~**PHYSICS NOTES LESSON 2  
ELECTROSTATIC POTENTIAL AND  
CAPACITANCE**~~

***Syllabus Covered for CBSE class 12  
Physics notes of Chapter 2  
Electrostatic Potential and  
Capacitance. Electric potential,***

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***potential difference, electric potential due to a point charge, a dipole and system of charges; equipotential surfaces, electrical potential energy of a system of two point charges and of electric dipole in an electrostatic field.***

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~~**Class 12 Physics Notes of Chapter  
2 Electrostatic ...**~~

*This formula is electric potential energy of a charged conductor. Consider two capacitors 1 and 2 whose area  $A$  is same. The capacitance of capacitor 1 is half of that of capacitor 2. Let the charges*

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Chapter 18

*on both the capacitors be  $q$ , then the electric field between the two plates,  $E =$  will be same.*

~~***RBSE Solutions for Class 12  
Physics Chapter 4 Electrical ...  
Here we have given Plus Two  
Physics Chapter Wise Questions***~~

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***and Answers Chapter 2 Electric Potential and Capacitance. Kerala Plus Two Physics Chapter Wise Previous Questions and Answers Chapter 2 Electric Potential and Capacitance. Question 1. Calculate the electrical capacitance of earth. The radius of earth is 6400 km.***

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**[March-2018] Answer:**

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Introduction, Capacitance  
Explained - How it works,***

*Page 38/74*

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**Dielectrics, Physics Energy stored in a capacitor. (Chap 2, Class 12)**

***Electrostatic Potential and***

***Capacitance 04 : Potential due to***

***Charged Spheres JEE MAINS/NEET***

***Electric Potential \u0026amp; Electric***

***Potential Energy Physics Problems***

***8.02x - Lect 4 - Electrostatic***

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CAPACITOR-2 : Parallel Plate  
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of a capacitor | Circuits | Physics |  
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energy | Electrostatics | Electrical***



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12th Class Physics Electrostatic  
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Potential: Visualizing Voltage with~~**

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Class 12th Organic Chemistry I~~

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Electric Potential, Current, and  
Resistance Potential, Potential  
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and Capacitors Capacitors - A Level  
Physics 12.13 Capacitor  
Electrostatic Potential and  
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~~capacitance / Plus two physics~~

~~malayalam / chapter 2 / ?????? ??~~

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**~~Energy And Capacitance Chapter~~**

**Chapter 16 Electrical Energy and**

**Capacitance Quick Quizzes 1. (b).**

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***The field exerts a force on the electron, causing it to accelerate in the direction opposite to that of the field. In this process, electrical potential energy is converted into kinetic energy of the electron. Note that the electron moves to a region of higher potential, but***

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## ~~**Chapter 16 Electrical Energy and Capacitance**~~

***Capacitors store electrical energy.  
That amount of energy is the same  
as the magnitude of work required  
to move charge,  $Q$ , onto the plates  
of the capacitor. When a capacitor***

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## Chapter 18

*discharges, it releases the energy (sparks). Find out how much work is required to charge a capacitor.*

## ~~Chapter 16 Electrical Energy Capacitance~~

*42 Chapter 16 1. A 2. B 3. C 4. D 5. A  
and C 6. None of the above 7.*



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***Cannot be determined Commentary  
Purpose: To develop the concept of  
work in the context of simple  
charge configurations. Discussion:  
According to the work-energy  
theorem, the work required to move  
a charge in an electric field is equal  
to the change in its electrostatic***

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*potential energy between the initial  
and final points.*

~~*Electrical Energy and Capacitance*~~

*Chapter 16 Electrical Energy and  
Capacitance Problem Solutions 16.1*

*(a) The work done is  $W = F \times s \cos \theta =$   
 $(qE) \times s \cos \theta$ , or  $W = (1.60 \cdot 10^{-19} \text{ C}) ($*

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$200 \text{ N C} (2.00 \cdot 10^{-2} \text{ m}) \cos 0^\circ =$   
 $6.40 \cdot 10^{-19} \text{ J}$  (b) The change in the  
electrical potential energy is  $6.40 \cdot 10^{-19} \text{ J}$   
 $PE = W = - \Delta U = -6.40 \cdot 10^{-19} \text{ J}$  (c) The  
change in the electrical potential is

## ~~Chapter 16 Electrical Energy and Capacitance~~

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***Electrical Energy and Capacitance  
37 Answers to Even Numbered  
Conceptual Questions 2. Changing  
the area will change the  
capacitance and maximum charge  
but not the maximum voltage. The  
question does not allow you to  
increase the plate separation. You***

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*can increase the maximum  
operating voltage by inserting a  
material with higher dielectric*

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**Electric Potential, Electric Potential  
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2 Electric Potential Energy  
Conservation of Energy Potential of**

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***Point Charges Equipotential  
Surfaces Capacitance & Capacitors  
Electric Potential Energy Part 1 4  
Energy: Definitions Webster's  
dictionary: Energy– the capacity to  
do work Work– the transfer of  
energy***



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~~**Electric Potential, Electric Potential  
Energy and Capacitance**~~

***All the capacitors have the same charge and the equivalent capacitance is less than the capacitance of any of the individual capacitors in the group and the largest potential difference appears***

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*across the capacitor with the  
smallest capacitance*

~~*Electrical Energy And Capacitance*~~

~~*(16) - ProProfs Quiz*~~

*Chapter 24 Capacitance, Dielectrics,  
Electric Energy Storage. Educators.  
kj Chapter Questions. 02:16 ... (Hint:*

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***See Example 10 of "Capacitance, Dielectrics, Electric Energy Storage.") Check back soon! 05:09. Problem 92 Consider the use of capacitors as memory cells. A charged capacitor would represent a one and an uncharged capacitor a zero.***

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~~**Capacitance, Dielectrics, Electric  
Energy Storage...**~~

**Electrostatic Potential and  
Capacitance Class 12 Notes**

**Chapter 2. 1. Electrostatic Potential**  
**The electrostatic potential at any  
point in an electric field is equal to**

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***the amount of work done per unit positive test charge or in bringing the unit positive test charge from infinite to that point, against the electrostatic force without acceleration. NOTE: Electrostatic potential is a state dependent function as electrostatic forces are***

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*conservative forces.*

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Capacitance Class 12 Notes ...*~~

*Kerala Plus Two Physics Notes  
Chapter 2 Electric Potential and  
Capacitance. Introduction The  
electric field strength is a vector*

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*quantity, while electric potential is a scalar quantity. Both these quantities are inter related. Electrostatic Potential. 1.*

~~*Plus Two Physics Notes Chapter 2  
Electric Potential and ...*~~

*Title: Chapter 18 Electrical energy*

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***and Capacitance 1 Chapter 18***

***Electrical energy and Capacitance 2***

***Today's Topics. Electric Potential***

***Energy ; Electric Potential ; Electric***

***Equi-potential Lines ; 3 Work. You***

***do work when you push an object***

***up a hill ; The longer the hill the***

***more work you do more distance ;***



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*The steeper the hill the more work  
you do more force*

~~*PPT Chapter 18 Electrical energy  
and Capacitance ...*~~

*So, how do those defibrillators you  
see on TV actually work? Surprise!  
Physics can explain! Okay buckle*

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*up, everyone! Today, Shini has the task of breaking d...*

~~*Voltage, Electric Energy, and  
Capacitors: Crash Course ...*~~

*Capacitance  $C$  is the amount of charge stored per volt, or  $C = Q/V$   
 $C = Q/V$  The unit of capacitance is the*

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***farad (F), named for Michael Faraday (1791–1867), an English scientist who contributed to the fields of electromagnetism and electrochemistry. Since capacitance is charge per unit voltage, we see that a farad is a coulomb per volt, or***

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~~Capacitors and Dielectrics / Physics~~

**CAPACITANCE SECTION I**

**ELECTROSTATIC POTENTIAL**

**ELECTRIC FIELD IS**

**CONSERVATIVE** *In an electric field work done by the electric field in moving a unit positive charge from one point to the other, depends*

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Chapter 18

*only on the position of those two points and does not depend on the path joining them.*

**ELECTROSTATIC POTENTIAL**

~~**PHYSICS NOTES LESSON 2**~~

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Physics notes of Chapter 2  
Electrostatic Potential and  
Capacitance. Electric potential,  
potential difference, electric  
potential due to a point charge, a  
dipole and system of charges;  
equipotential surfaces, electrical***

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***potential energy of a system of two point charges and of electric dipole in an electrostatic field.***

~~***Class 12 Physics Notes of Chapter 2 Electrostatic ...***~~

***This formula is electric potential energy of a charged conductor.***

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***Consider two capacitors 1 and 2 whose area  $A$  is same. The capacitance of capacitor 1 is half of that of capacitor 2. Let the charges on both the capacitors be  $q$ , then the electric field between the two plates,  $E =$  will be same.***



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and Answers Chapter 2 Electric  
Potential and Capacitance. Kerala  
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***Chapter 2 Electric Potential and Capacitance. Question 1. Calculate the electrical capacitance of earth. The radius of earth is 6400 km. [March-2018] Answer:***