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	Chapter 26 example.
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	Section 1- CSE/C
	0)26.11.
	A Solid ·····length is l.
	Salutania
	$V_b - V_a = \int_a^b \overrightarrow{F} \cdot d\overrightarrow{S}$
_	$V_b - V_a = -\int_a^b f \cdot d\mathbf{r} = -2keA \int_a^b \frac{d\mathbf{r}}{\mathbf{r}} = -2keA \ln\left(\frac{b}{a}\right)$
_	D D
_	C = Q = Q = C $OV (2keQ/U) ln(b/a) = 2keln(b/a)$
_	
_	Q 26.2:-
_	A spherical device.
	Solution:
_	$\frac{V_b - V_a = -\int_{ca}^{b} \overline{E} \cdot d\vec{s}}{V_b - V_a = -\int_{ca}^{b} \overline{E} \cdot d\vec{s}} = \text{KeQ} \left[\frac{1}{V} \right]_{ca}^{b}$
_	Vb - Va = - Seroly = - KeQ or = KeQ Ty Ja
_	
_	(1) Vy-Va-KeQ (2/1) = KeQa-b
_	a5
	c=Q-Q=ab
	$C = Q - Q = ab$ $V_{\delta} - V_{\delta} - V_{$
	Enample 26.3:-
	Find microforads.
	Solution:
1	

Ceq =
$$C_1 + C_2 = 40\mu F$$

 $Ceq = C_1 + C_2 = 40\mu F$
 $Ceq = C_1 + C_2 = 40\mu F$
 $Ceq = 2.0\mu F$
 $Ceq = 4.0\mu F$
 $Ceq = 4.0\mu F$
 $Ceq = C_1 + C_2 = 6.0\mu F$

9)26.4:-

Solution: (a)

$$\mathfrak{D}^{\dagger} = \mathfrak{D}^{\dagger} + \mathfrak{D}^{\dagger} = c' \mathfrak{d}^{\dagger} + c' \mathfrak{d}^{\dagger} = (c' + c') \mathfrak{d}^{\dagger}$$

(B)
$$r = \frac{1}{2}c_{1}(v_{1})_{2} + \frac{1}{2}c_{2}(v_{1})_{2} + \frac{1}{2}(c_{1}(v_{1})_{2})_{2} + \frac{1}{2}(c_{2}(v_{1})_{2})_{2} + \frac{1}{2}(c_{1}(v_{1})_{2})_{2} + \frac{1}{2}(c_{2}(v_{1})_{2})_{2} + \frac{1}{2}(c_{1}(v_{1})_{2})_{2} + \frac{1}{2}(c_{2}(v_{1})_{2})_{2} + \frac{1}{2}(c_{1}(v_{1})_{2})_{2} + \frac{1}{2}(c_{2}(v_{1})_{2})_{2} +$$

5) $U_{f} = \frac{1}{2} (c_{1} + c_{2}) \left[\left(\frac{c_{1} - c_{2}}{c_{1} + c_{2}} \right) \delta v_{i} \right]^{2} = \frac{1}{2} \frac{(c_{1} - c_{2})^{2} (\delta w)^{2}}{(c_{1} + c_{2})}$ u; / (c,+(2) (DVi)2/(c,+(2)) $\frac{u_i}{u_i} = \left(\frac{c_1 - c_2}{c_1 + c_2}\right)^2$ example 26.5:parallelinserted. Vo= 02 enample 26.6: The water to the field. Solution: W- Uqo-Up = (-NpFcos 90)-(-NPEcos0°) -NPE=(624)(63x6-30c.m)(2.5x65Nlc) Solution: (A) enample 26.7:

$$C = \lim_{\alpha \to \infty} \left(\frac{\epsilon_0 A}{\epsilon_0 - \epsilon_0 A} \right) = \frac{1}{\epsilon_0 A}$$

$$C = \lim_{\alpha \to \infty} \left(\frac{\epsilon_0 A}{\epsilon_0 A} \right) = \frac{1}{\epsilon_0 A}$$

Example 26.8

A parallel Is a fraction between

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Solution :-

$$C_{1} = \frac{kE_{0}A}{fd} \quad \text{and} \quad C_{2} = \frac{E_{0}A}{(1-f)d}$$

$$\frac{1}{c} = \frac{1}{c_{1}} + \frac{1}{c_{2}} = \frac{fd}{kE_{0}A} + \frac{(1-f)d}{E_{0}A}$$

$$\frac{1}{c} = \frac{fd}{kE_{0}A} + \frac{k(1-f)d}{kE_{0}A} = \frac{f+k(1-f)d}{kE_{0}A}$$

$$C = \frac{k}{f+k(1-f)} \cdot \frac{E_{0}A}{d} = \frac{k}{f+k(1-f)} \cdot \frac{d}{d}$$