CLPhys1 28.P.039. (381941)

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Certain Substance A certain substance has a dielectric constant of 2.9 and a dielectric strength of 22 MV/m. If it is used as the dielectric material in a parallel-plate capacitor, what minimum area should the plates of the capacitor have to obtain a capacitance of 7.0×10^{-2} μF and to ensure that the capacitor will be able to withstand a potential difference of 4.0 kV?

[ ] m^2

Question Details

Name (QID): **CLPhys1 28.P.039. (381941)**
Usable/Draft: **Usable**
Locked: **Yes**
Mode: **Numerical**
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Textbook
Cummings, Laws, Redish, and Cooney, "Understanding Physics", ed.1

Chapter
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