

Homework 08

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SPN 8–01 – “Radiation resistance”

Do Griffith’s 11.3.

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SPN 8–02 – Energy loss by radiation in a capacitor

Do Griffith’s 11.8.

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SPN 8–03 – Energy loss by radiation of a dropped charge

Do Griffith’s 11.12.

This can be done entirely with formula 11.70. The problem reads: ”An electron is released from rest and falls under the influence of gravity. In the first centimeter, what fraction of the potential energy lost is radiated away?”

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SPN 8–04 – Atoms can’t exist!

Do Griffith’s 11.14 to see why!

First few words are:

“In Bohr’s theory of hydrogen ... ”