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These can be compared to the exact results in part (c) and to the series solution of the same system in Jackson problem 2.16. PHY 712 -- Assignment #8 February 4, 2008

PHY 712 Graduate Level Electrodynamics

croscopic level, classical electrodynamics is nevertheless extremely relevant and useful in the real world today at the macroscopic level. It describes extremely precisely nearly all the mundane aspects of ordinary electrical en-gineering and electromagnetic radiation from the static limit through optical frequencies.

Classical Electrodynamics - Duke University

e Classical electromagnetism or classical electrodynamics is a branch of theoretical physics that studies the interactions between electric charges and currents using an extension of the classical Newtonian model.

Classical electromagnetism - Wikipedia

(PDF) Solutions to Jackson's book Classical Electrodynamics - 3th Edition | Herminso Villarraga-Gómez - Academia.edu This paper contains (handwritten) comprehensive solutions to the problems proposed in the book "Classical Electrodynamics", 3th Edition by John David Jackson. The solutions are limited to chapters 1, 2, 3, & 4.

Solutions to Jackson's book Classical Electrodynamics ...

The following is the very first set of the series in "Problems and Solutions in a Graduate Course in Classical Electrodynamics". In each of the sets of the problems we intend to follow a theme, which not only makes it unique but also deals with the investigation of a certain class of problems in a thorough and rigorous manner. Figures are not included.

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$\lambda = -2 \frac{1+\lambda}{4} < 0$ for $\lambda = 1$. Thus for $\lambda = 1$, $q = Q/2$. This means the total fixed charge will be divided equally among the the two charges to give the maximum force of repulsion: $F_{1,max} = q a(1 - \mu) / 2$. B. If the midpoint of the line joining the two charges is fixed, then $a + \mu a / 2 = \text{constant (d)}$. Therefore, $a = 2d / (1 + \mu)$.

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