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Solutions

John David Jackson's "Classical Electrodynamics" (3rd ed., Wiley, ISBN 0-471-30932-X, with errata) is a rite of passage for graduate students. Those who pass enjoy forcing the same pain on the next generation. Well, here's some help in that regard. Solutions from the problems assigned during the 2001-2000, 2003-2004, 2005-2006, and first half of 2007-2008 classes at the University of Michigan ...

Jackson Physics Problem Solutions

These are my solutions for problems from John David Jackson's Classical Electrodynamics (3rd Edition). Brace yourself — I did not get full marks on many of these. Getting any single Jackson problem completely correct could be a life's work! Hopefully you can still find use in them. Read the disclaimer before use. Solution: Jackson 1.3. Solution: Jackson 1.6. Solution: Jackson 1.12 ...

Jackson: Electrodynamics – Ben Levy

These solutions reflect assignments made by Professor Akhoury at the University of Michigan during his course on Electrodynamics, Physics 505, in the Fall of 2004. Virtually all of the homework problems came directly out of Jackson's Classical Electrodynamics.

Solutions to Jackson's Electrodynamics

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Jackson Electrodynamics Solutions Chapter 3

Jackson 3.6 Homework Problem Solution Dr. Christopher S. Baird University of Massachusetts Lowell PROBLEM: Two point charges q and $-q$ are located on the z axis at $z = +a$ and $z = -a$, respectively. (a) Find the electrostatic potential as an expansion in spherical harmonics and powers of r for both $r > a$ and $r < a$. (b) Keeping the product $qa = p/2$ constant, take the limit of $a \rightarrow 0$ and find the ...

Jackson 3.6 Homework Problem Solution - WTAMU

Jackson 4.8 Homework Problem Solution Dr. Christopher S. Baird University of Massachusetts Lowell PROBLEM: A very long, right circular, cylindrical shell of dielectric constant ϵ and inner and outer radii a and b , respectively, is placed in a previously uniform electric field E_0 with its axis perpendicular to the field. The medium inside and outside the cylinder has a dielectric constant of ...

Jackson 4.8 Homework Problem Solution - WTAMU

Jackson 3.2 Homework Problem Solution Dr. Christopher S. Baird University of Massachusetts Lowell PROBLEM: A spherical surface of radius R has charge uniformly distributed over its surface with a density $Q/4\pi R^2$, except for a spherical cap at the north pole, defined by the cone $\theta = \alpha$. (a) Show that the potential inside the spherical surface

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can be expressed as

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clear after reading this book. All fundamentals are deeply
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Dr. Baird - All Courses - WTAMU

Jackson 2.3 Homework Problem Solution Dr. Christopher S.
Baird University of Massachusetts Lowell PROBLEM: A
straight-line charge with constant linear charge λ is located
perpendicular to the x-y plane in the first quadrant at $(x_0,$
 $y_0)$. The intersecting planes at $x = 0, y = 0$ and $y = 0, x = 0$
are conducting boundary surfaces held at zero potential.

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on Q is evidently E is called the Electric Field of the source
charges Physically, $E(r)$ is the force per unit charge that
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