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r has a singular nature and the identity from Jackson equation (1.31) is used: r2 1 r = 4ˇ (r): (8) The factor of e r vanishes when multiplied with (r), and the nal result is: ˆ(r) = 3e r 8ˇ + (r) q: (9) This charge distribution is physically interpreted as a sharp, discrete peak in the center

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Classical Electrodynamics (book) - Wikipedia

Using the Laplacian for spherical coordinates (see back-cover of Jackson), the result for r>0 is ˆ(r) = 3q 8ˇr2 e r (1.12) For the case of r!0 lim r!0 (r) = lim r!0 q 4ˇ 0r (1.13) From section 1.7 in Jackson

we have (J1.31): r2(1=r) = 4˘ (r) (1.14) Combining (1.13), (1.14) and Poisson's equation, we get for r!0 ˆ(r) = q (r) (1.15)

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Jackson: Electrodynamics | Ben Levy
10 classical electrodynamics 1.2 Vector Algebra In this section, I will teach you how to memorize/derive commonly used vector algebra without referring to a handbook. We will use a lot of vector analysis and identities in this class. AB C = BC A = C A B = A BC A (B C) = (C B) A = (AC)B (AB)C r(fg) = frg + grf r(f A) = frA+ Arf r (f A) = fr A+rf ...

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Classical Mechanics and ElectrodynamicsLecture notes FYS 3120Jon Magne Leinaas Department of Physics, University of Oslo December 2009. 2. PrefaceThese notes are prepared for the physics course FYS 3120, Classical Mechanics and Electrodynamics, at the Department of Physics, University of Oslo.