



Electrical and Computer Engineering ECE3712 Electromagnetic Fields and Waves



Project Report – Project 1 – Electrostatics Spring 2018 Dennis Silage, PhD



10 points. Project report format: summary, introduction, discussion, conclusions, appendices



5 points. Use of project d1, d2 and d3 fully delineated in the calculation



20 points. Calculation and plot of \mathbf{E} at $P(x, y, z)$ from entry with out of range flagged.



20 points. Calculation and critical description of the result when ΔS is varied appropriately over at least three orders of magnitude.



25 points. Plot of the results for \mathbf{E} in Cartesian coordinates and a critical discussion for $-0.7 d_3 \leq x \leq 0.7 d_3$ and the four instances listed for y and z .



20 points. Reference and critical discussion of a fringing field and a demonstration by a plot of fringing fields for $x > d_3$

Total Points 100 — = points

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