Answer on Question #55891, Physics / Electromagnetism

Which of the following is not true about the electric field intensity \vec{E} of a uniformly charged solid sphere?

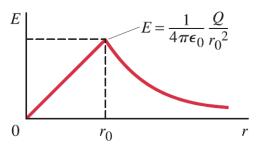
 \vec{E} is maximum at the surface of the sphere

 \vec{E} is directly proportional to the distance from centre of the sphere

- \vec{E} decreases as a square of the distance from the surface of the sphere
- \vec{E} decreases as a square of the distance from the centre of the sphere

Solution:

FIGURE Magnitude of the electric field as a function of the distance *r* from the center of a uniformly charged solid sphere.



Answer: \vec{E} decreases as a square of the distance from the centre of the sphere

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