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field where the Lorentz force is balanced by the centrifugal force. Note that the charge travels in the direction (in this case clockwise) so that its self-field through the loop [see Section 5-2-1] is opposite in direction to the applied field. (b) A velocity component in the direction of the magnetic field is unaffected resulting in a helical ...

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(a) What is the electric field everywhere along the z axis and in the $0 = vr/2$ plane? (Hint: Use the method of images.) (b) We would like this problem to model the case of a conducting sphere in a uniform electric field by bringing the point charges

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