

- 1)Compute the ground resistance for a hemisphere of 0.5, 1 and 2m diameter, at distances 2m, 10m and 100m from the center of the sphere.Present the results in both tabular and graphical formats and for different soil composition.
- 2)Calculate the ground resistance and the overlapping coefficient for the grounding system shown below in each figure, given that the earth resistivity ρ =100 Ω .m, the length of the driven rod is 8 m, and its diameter is 6 cm. Discuss your results.



3) If the earth resistance of a driven rod is 5 Ω , and its diameter is 5 cm, **Calculate** the length of the driven rod, given that the earth resistivity $\rho=100 \ \Omega$.m.