



## Set equipotential surfaces

EQ029D

### Function

Intended for study, physics laboratory, physics experiments on: Electricity. Equipotential surfaces, lines of force and electric field between point electrodes. The electric field. The equipotential surfaces of an electric field. Analogy between the Earth gravitational field and the electric field, conservative field. Checking the circuit with point electrodes. Joining points and understanding equipotential surface between two point electrodes. Michael Faraday, equipotential surfaces, lines of force and the electric field vector between two point electrodes. What is a line of force for an electric field. Properties of electric field lines of force. Equipotential surfaces, lines of force and electric field between parallel plane electrodes. Analogy between the Earth gravitational field and the electric field, conservative field. Checking the circuit with parallel flat electrodes. Joining points and understanding the equipotential surface between two parallel flat electrodes. The Faraday cage and electrostatic shielding. Checking the circuit with parallel flat electrodes and a hollow metal cylinder between them. The positioning of equipotential surfaces in relation to the lines of force and the electric field vector. The zero electric field inside a cavity of an equilibrium conductor, electrostatic shielding, etc.

Note: Electrical meters and power supply are not included.

### Knowledge areas

Physics

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