

# Public Finance

## Samenvatting

Manuel Mol

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### 1. DC RESISTIVITY

DC resistivity surveys obtain information about subsurface electrical conductivity,  $\sigma$ . This physical property is often diagnostic in mineral exploration, geotechnical, environmental and hydrogeologic problems, where the target of interest has a significant electrical conductivity contrast from the background. In a DC resistivity survey, steady state currents are set up in the subsurface by injecting current through a positive electrode and completing the circuit with a return electrode.

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### Key Points

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## 2. WEEK 1

The equations for DC resistivity are derived in . Conservation of charge (which can be derived by taking the divergence of Ampere's law at steady state) connects the divergence of the current density everywhere in space to the source term which consists of two point sources, one positive and one negative.