

# Soil Improvement

Coarse grained soil

Fine grained soil

# **Soil improvement techniques for coarse grained soils**

**Vibrocompaction**

**Vibroflotation**

**Dynamic compaction (Dynamic consolidation)**

# **Soil improvement techniques for fine grained soils**

**Preloading**

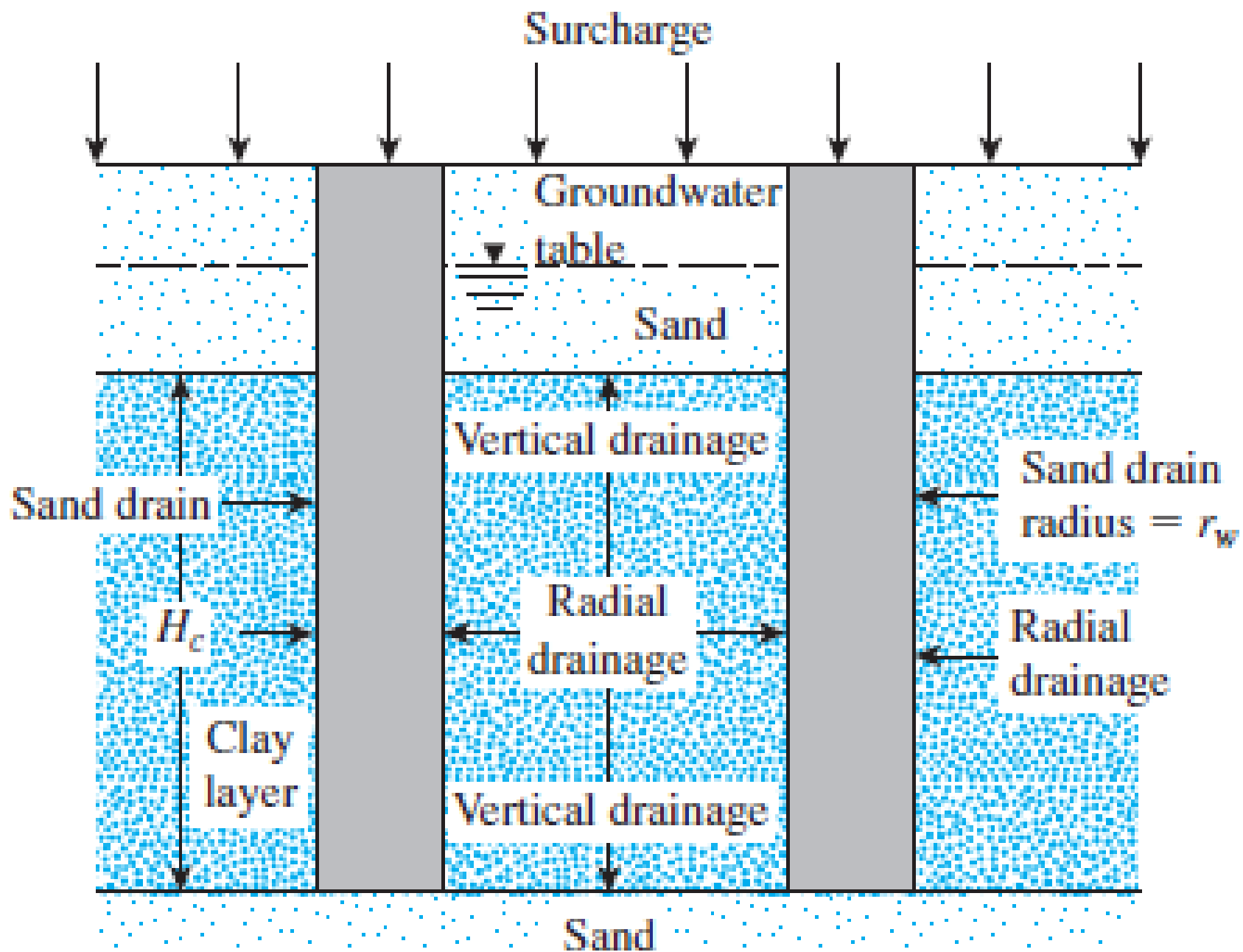
**Well points**

**Electro osmosis**

**Sand drains**

**Dynamic compaction (Dynamic consolidation)**

For example, sand drains are used to shorten the drainage length leading to the acceleration of consolidation.



In addition,

Geotextiles,

Grouting and

Groundfreezing can be used to improve the properties of soils.

# Some Devices for Geotechnical Applications

Piezometer (measures pore water pressure)

Inclinometer (measures lateral movement)

Tiltmeter (measured deviation from vertical)