

ENCE-647: (UMD) Slope Stability and Seepage

Theoretical and practical aspects of seepage effects, and groundwater flow, review of shear strength principles, flow through porous media, hydraulic conductivity, flow nets, determination of water pressure, seepage forces and quantity of seepage, laboratory and field tests for shear strength, infinite slopes, block analysis, method of slices, seismic analysis of slopes, effective and total stress analysis, computer programs for slope stability analysis, slope stability problems in waste disposal, construction excavations, reinforced embankments, embankments on soft ground. Prerequisites: CIEG-434

Credits: 3

Program: Civil Engineering