Materials Testing
Phase Diagram Example

A sample of sandy clay soil was submitted to our lab for testing. We have, by means of ASTM test methods, determined the following: **S, n, e**

Soil Wet Density: 100 lbs/ft$^3$
Soil Dry Density: 80 lbs/ft$^3$
Specific Gravity: 2.6

Complete the phase diagram, solve for “S” (degree of saturation), “e” (void ratio) and “n” (porosity).