

# PE Civil Exam – Geotechnical With Complete Solution

Void Ratio,  $e$  - or  $V_v/V_s$

Porosity,  $n$  - or  $V_v/V_t$

Saturation,  $S$  - or  $V_w/V_v$

Dry unit weight ( $\gamma_d$ ) -

Wet unit weight ( $\gamma_w$ ) -

Specific Gravity ( $G_s$ ) -

dry density ( $\rho_d$ ) -  $W_s/V_t$

OR

$\rho / (1+w)$

Water content,  $w$  -  $W_w/W_s$

Truss - A truss is an assemblage of straight members connected at their ends by flexible connections (pin-jointed) to form a rigid configuration.

Use of Truss - Trusses are widely used for applications such as supporting bridge decks, roofs of buildings, floor slabs, electricity pylons, towers, domes etc.

Simple Truss (2D) - 2D plain trusses e.g. bicycle frame

Planar truss - Consist of joining plane trusses

Space Frame Truss - 3D framework

Pitched Truss - A truss having inclined top chords.

Flat truss -

Truss Members -

Types of connections in timber trusses - Metal plate and bolts

Nail plate

Traditional method using Hardwood pegs

# Geotechnical Pe Exam Course Notes

**J Spring**



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