

Pemilihan Kuat Geser Tanah berdasarkan kondisi analisis

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Types of analysis

The shear strength is represented by the Mohr-Coulomb criteria:

Total stress analysis: $\tau = c_u$

Effective stress analysis

$$\tau = c' + \sigma' \tan \phi'$$

Total stress vs. effective stress

- The most critical condition for excavated slope is long term, while the most critical condition for embankment is short term.
- **total stress concept** is more appropriate for analysis related to low permeability soil such as clay and stability analysis for short term condition
- **effective stress concept** is to be applied for long term situation

