SLOPE STABILITY ANALYSIS (WEDGE METHOD)



ANALYSIS

Calculate factor of safety (FS) for multiple slip planes by using various horizontal heights of sliding mass (H) and angles of potential failure surface (α) until the lowest factor of safety is determined. Acceptable factor of safety for static slope conditions is usually equal to or greater than 1.5.

SLOPE STABILITY ANALYSIS (METHOD OF SLICES)



Calculate factor of safety (FS) for multiple slip surfaces by using various circle locations and radii until the lowest factor of safety is determined. The potential sliding mass is divided into slices, usually 10 slices. The above equations account for the summation (Σ) of all individual slice weights and slice angles (α) . Acceptable factor of safety for static slope conditions is usually equal to or greater than 1.5.