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## NUMERICAL ANALYSIS OF THE SLOPE BY GEO5

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**Abstract**— *failure of the slope often costs lives as well as property. Numerical simulation performed with GEO 5 software to know the influence of anchor for slope stability by traditional Limit Equilibrium method; Bishop's method. For the analysis silty sand is used; for the given slope, the best inclination of the anchor is suggested to be 25° from the horizontal. optimal horizontal spacing between anchor is determined to be 0.5m to 1.3m. optimal capacity of the anchor should be 200KN to 350KN.*

**Keywords**— *Geo5, slope stability, anchored slope, Bishops method, numerical analysis:*

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