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Research Interest

- Ground movements due to underground excavation and associated damage to adjacent structures.
- Finite element analysis; non-linear solid mechanics and soil-structure interaction
- Leachate contaminated soil characteristics.
- Reinforced Earth behavior

Recent Publications

- Shallow Tunneling through Soft Ground for Mass Rapid Transit System and Analysis of its Effect on Surface Structure by 3-D Finite Element Technique. Proc. of 26th National Convention of Civil Engineers, 2010, pp. 32-40.
- In-situ Direct Shear Test for Determination of Shear Strength Characteristics of Rock-to-Rock Interface and Concrete-to-Rock Interface for Stability Analysis of Concrete Gravity Dam of Large Hydro-Electric Power Projects. Proc. of 26th National Convention of Civil Engineers, 2010, pp. 328-335.
- Assessment of Bulding Damage due to Shallow Bored Tunneling in Soft Ground, Proc. National Conference on Structural Engineering and Mechanics (SEM 04), 2004, pp. 271-276.
- Studies of the Effects of Stone Column on Bearing Capacity of C- ϕ Soil. Proc. Indian Geotechnical Conference, 2002, Vol. I., pp. 214-217.
- Studies on Inclined Pile for Improvement of Bearing Capacity of Soil, Proc. Indian Geotechnical Conference, 1996.