

7C I FG9'D@5B'.

KYY_`%'`. Introduction, critical study of conventional methods of shallow foundation design: bearing capacity and settlement calculation.

KYY_`&`. Critical study of conventional methods of shallow foundation design (continued), contact pressure and soil-structure interaction for shallow foundation, concept of subgrade modulus, determination of subgrade modulus, parameters influencing subgrade modulus.

KYY_`*'`. Determination of subgrade modulus and parameters influencing subgrade modulus (continued). Different foundation models (such as one-parameter, two-parameter models etc.) with linear and non linear stress-strain characteristics.

KYY_`('`. Time-dependent response, Beams on Elastic Foundation, infinite beam.

KYY_`)`. Infinite beam (continued), infinite beam subjected to various loading conditions, semi-infinite beam.

KYY_`*'`. Semi-infinite beam (continued), beams with finite length.

KYY_`+'`. Beams with finite length and various end conditions, continuity among the foundation soil layers.

KYY_`,`'`. Continuity among the foundation soil layers (continued), beams on two-parameter soil medium (infinite and finite beam), beam with variable EI and subgrade modulus.

KYY_`-'`. Plates on Elastic Foundation (rectangular and circular), plates on two-parameter soil medium, use of Finite Difference Method (FDM) for soil structure interaction problems

KYY_`%\$`. Use of Finite Difference Method (FDM) for soil structure interaction problems (continued), computer programs based solution of different interaction problems such as beams, plates, application of foundation models in real life problem.

KYY_`%%`. Group action of pile, Elastic Analysis, settlement of pile group under compressive load by Interaction Factor Approach, negative skin friction.

KYY_`%&`. Laterally loaded piles, Reese and Matlock's generalized solution, displacement of pile group under lateral load by Interaction Factor Approach, Uplift capacity of piles and anchors.