



Design of Column-reinforced Foundations

Mounir Bouassida

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The design of foundations on reinforced soil by columns is discussed within a general framework where several aspects are taken into consideration: modeling of reinforced soil, bearing capacity, settlement, acceleration of consolidation, and improvement of soil characteristics with selected case histories. Unlike existing books on unique improvement techniques (deep soil mixing, stone columns, sand compaction piles) that focus on installation and equipment issues, this one-of-a-kind, full-color guide details design purpose. It is an important work for all in the geotechnical field, including practitioners, academics, and students.

KEY FEATURES:

- Introduces a novel methodology of design for all column techniques through an optimized improvement area ratio determined by combining the bearing capacity and settlement verifications that constitute an original result
- Provides case histories that show this optimized design is cost effective compared to existing methods based either on bearing capacity or settlement considerations
- Shows the value of the optimized design achieved by elaborated columns through software already in use by geotechnical engineers
- Analysis of the behavior of reinforced soil by columns, carried out by finite element and finite difference codes, subjected to various vertically loaded structures, shows the effectiveness of floating columns that can be adopted for reinforcement of thick compressible deposits
- Rationally handles the design of column-reinforced foundations from modeling up to the study of behavior predicted by numerical analysis and assessed by field test results

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