



Dynamic Response and Deformation Characteristic of Saturated Soft Clay under Subway Vehicle Loading (Springer Environmental Science and Engineering)

Yiqun Tang, Jie Zhou, Xingwei Ren, Qi Yang

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Involving several areas of geological engineering, geotechnical engineering and tunnel engineering, this book describes the soft soil deformation characteristics and dynamic responses induced by subway vibration load. Based on field monitoring and laboratory testing data, with both comprehensive micro-and macroanalysis, the authors present dynamic characteristics and deformation settlement of saturated soft clay surrounding subway tunnels using dynamic and static methodology. Mechanism of deformation, failure in microstructure of soft clay soil, dynamic response, macro deformation and settlement are all discussed and analyzed thoroughly and systematically. Some of the research findings in this book have been widely applied by large subway companies and will have broader application prospects in future. All the above make this book a valuable reference not only for technical engineers working in subway design or construction but also for advanced graduate students. Prof. Yiqun Tang works at the Department of Geotechnical Engineering, Tongji University, Shanghai, China.

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