



Advanced Soil Dynamics and Earthquake Engineering

Bharat Bhushan Prasad

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This text presents the applications of soil dynamics and earthquake engineering for seismic-resistant design of foundations and earth-retaining structures. It is a sequel to the author's book entitled Fundamentals of Soil Dynamics and Earthquake Engineering that presents the basic principles, whereas advanced topics have been covered in this text.

The book discusses topics such as the emerging challenges to seismic-resistant foundations and other soil-retaining structures, the practical issues of soil investigations for a specific project, the basic principles of vibrations along with their practical applications to civil engineering structures, the dynamic stability of elastic systems, the dynamic response to bomb blast loading and their effect on foundations and sub-structures, the dynamics of beam on elastic foundations, and the dynamics of foundations.

This textbook is essentially meant for undergraduate students in Civil Engineering and also covers the postgraduate course in Earthquake Engineering. The book will also be helpful as a ready reference for design and consulting engineers.

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