



Wave Propagation in Solid and Porous Half-Space Media

By Hamid R. Hamidzadeh, Liming Dai, Reza N. Jazar

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This book covers advanced topics in dynamic modeling of soil-foundation interaction, as well as the response of elastic semi-infinite media from an applications viewpoint. Advanced concepts such as solutions for analysis of elastic semi-infinite media, fluid motion in porous media, and nonlinearities in dynamic behavior are explained in great detail. Related theories and numerical analysis for vertical vibration, and rocking vibration of a rigid rectangular mass-less plate, and horizontal vibration of a rigid mass-less plate are presented. Throughout the book, a strong emphasis is placed on applications, and a laboratory model for elastic half-space medium is provided.

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Editorial Review

From the Back Cover

This unique book covers advanced topics in dynamic modeling of soil-foundation interaction, as well as the response of elastic semi-infinite media from an applications viewpoint. Advanced concepts such as solutions for analysis of elastic semi-infinite mediums, fluid motion in porous media, and nonlinearities in dynamic behavior are explained in great detail. Related theories and numerical analysis for independent vertical, horizontal, and rocking as well as coupled horizontal and rocking vibrations of a rigid rectangular base resting on the surface of a semi-infinite medium are presented. Throughout the book, a strong emphasis is placed on applications. A laboratory model for elastic half-space medium is also described.

This book also:

- Provides a systematic solution for analysis of elastic semi-infinite mediums when subjected to different loading conditions
- Offers a solution for the continuous elastic medium that is also extended to visco-elastic media by considering complex elastic modules
- Presents advanced concepts in wave propagation from a practical and application-based standpoint so that readers can use the theories in the field

Users Review

From reader reviews:

Shirley Daniels:

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