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Boundary Element Methods (BEM) based on boundary integral equations are very well suited for dynamic soil-structure interaction problems and they have also become a very widely used approach for the solution of this type of problems. Unbounded regions are naturally represented. The radiation of waves towards infinity is automatically included in the model, which is based on an integral representation valid for internal and external regions. The first BE application for DSSI problems was

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The Boundary Element Method appears to be well suited to solve problems of Soil- Structure Interaction through its ability to discretize only the boundaries of complex and often unbounded geometries. Non-linear problems which often arise in Soil-Structure Interaction may also be treated advantageously by a judicious mix of Boundary and Finite Element discretizations.

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Boundary Element Methods for Soil-Structure Interaction Edited by W.S. HALL, University of Teesside, Middlesbrough, United Kingdom and G. OLIVETO, University of Catania,

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Boundary integral equations are a classical tool for the analysis of boundary value problems for partial differential equations. The term boundary element method (BEM) denotes any method for the approximate numerical solution of these boundary integral equations.

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Structure soil structure interaction: Literature review ...

D.E. Beskos Applications of the boundary element method in dynamic soil structure interaction In Development in Dynamic Soil Structure Interaction , Kluwer Academic , Dordrecht (1993) p. 61-90

The coupling finite-boundary element method for soil ...

finite-boundary element methods and scaled boundary finite element method for dynamic response of two-dimensional structures embedded in layered soil media. Boundary element method was used for modeling the

dynamic response of the unbounded media (far-field), whereas the standard finite element method was used for modeling the finite region (near-field) and the structure. Dynamic responses of

Mixed FEM-BEM Formulations Applied to Soil-Structure ...

Mixed FEM-BEM Formulations Applied to Soil-Structure Interaction Problems Dimas Betioli Ribeiro and João Batista de Paiva Abstract The objective of this paper is to present formula-tions developed for soil-building interaction analysis, including foundations. The soil is modeled with the boundary element method (BEM) as a layered solid which may be nite for the vertical direction, but is