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Parallel Solution of Soil-Structure Interaction Problems

By Bahçecio lu, Tunç

Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | On PC Clusters, using MPI | Numerical assessment of soil structure interaction problems require heavy computational efforts because of the dynamic and iterative (nonlinear) nature of the problems. Furthermore, modeling soil-structure interaction may require finer meshes in order to get reliable results. Latest computing technologies must be utilized to achieve results in reasonable run times. This book focuses on development and implantation of a parallel dynamic finite element analysis method for numerical solution of soil-structure interaction problems. For this purpose first, an extensible parallel finite element analysis library was developed. Then this library was extended with algorithms that implement the parallel dynamic solution method. Parallel dynamic solution algorithm is based on Implicit Newmark integration algorithm. This algo- rithm was parallelized using MPI (Message Passing Interface). For numerical modeling of soil material an equivalent linear material model was used. Several tests were done to benchmark and demonstrate parallel performance of implemented algorithms. | Format: Paperback | Language/Sprache: english | 120 pp.



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