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论文

有限元并行程序设计 with 实现

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摘要:

关键词:

Design and Implementation of FEM Parallel Program

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Abstract:

Parallel computation of FEM under systolic distributed network is a important direction of FEM parallel computation. A program designing method and its implementation for FEM parallel analysis under network based on PVM is pre-sented. Substructure parallel analysis method with multi-front parallel processing is adopted in FEM parallel computation, the interface equations are solved with Preconditioned Conjugate Gradient (PCG) method. The implementation of this designing method is easy. Example shows the designing method can obtain higher speedup ratio.

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