

スタガード粒子を用いた粒子法による地震波伝播シミュレーション

A Hamiltonian particle method with staggered technique for simulating strong ground motion

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We applied staggered particle technique to a Hamiltonian particle method (HPM). In finite difference methods (FDM), staggered grid has been applied for improving the accuracy of calculation. However, the variables in HPM are defined at the same position in the previous studies. In the present study, we displace the variables at the staggered positions same as FDM.

Our results indicated that the staggered technique improve the accuracy of HPM.

キーワード: 粒子法, スタガード, 地震波伝播

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