

عنوان مقاله:

SPATIAL SEISMIC EXCITATIONS OF LONG STRUCTURES

محل انتشار:

ششمین کنفرانس بین المللی زلزله شناسی و مهندسی زلزله (سال: 1390)

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نویسندگان:

Mohammad Reza Falamarz-Sheikhabadiand - *M.Sc, International Institute of Earthquake Engineering and Seismology, Tehran, Iran*

Mohsen Ghafory-Ashtiany - *Professor, International Institute of Earthquake Engineering and Seismology, Iran*

خلاصه مقاله:

In this paper, a procedure for the spatially varying seismic loading of the multiple-support structures is proposed. This technique is an extension to structural input energy method combined with the random vibration analyses. In this regard, at first, by estimating the power spectral density function of the earthquake rotational components corresponding to a point on the ground surface, an equivalent velocity response spectrum corresponding to the quasi-static motions of the multiple-support structures are derived. Next, the influences of the effective parameters on the seismic excitation of the long structures are parametrically studied.

کلمات کلیدی:

Multiple-Support Structures; Absolute Input Energy; Rotational Components

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