

عنوان مقاله:

Forced vibration of SDOF dynamic systems subjected to harmonic loads by means of Green's function

محل انتشار:

سومین کنفرانس ملی زلزله و سازه (سال: 1391)

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خلاصه مقاله:

The dynamic response of single-degree-of-freedom systems subjected to harmonic loads is considered. To this end, Green's function method is employed and closed-form results are obtained. This method is used for damped and undamped systems which can possess arbitrary initial conditions. An innovative technique is applied in order to construct the dynamic Green's function of the problem. A vast number of examples are presented and particular focus is placed on the response of dynamic systems in the presence of resonance.

کلمات کلیدی:

equation of motion, Green's function, damped and undamped dynamic systems, harmonic loads, resonance

لینک ثابت مقاله در پایگاه سیویلیکا:

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