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Dynamics of rigid bodies under pure rocking (Article)

Baratta, A. ✉ , Corbi, I. ▲

Department Structural Mechanics, University of Naples Federico II, Via Claudio 21, 80125 Napoli, Italy

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Abstract

In the present research one addresses the problem of rocking of rigid blocks moving on a foundation base subjected to a horizontal ground motion. To this purpose, one analyses and discusses basic reference mod els; thereafter, one tests the pure rocking response of rigid blocks from an experimental point of view by means of a shaking table; experiments are developed on rectangular aluminium blocks of various sizes and geometry ratios.

Author keywords

Dynamics; Experimental tests; Laboratory data; Non-linear behaviour; Rigid blocks; Rocking response; Shaking table; Unilateral constraints

Indexed keywords

Engineering controlled terms: Experiments; Foundations; Geometry

Engineering uncontrolled terms: Experimental tests; Laboratory data; Non-linear behaviour; Rigid blocks; Rocking response; Shaking table; Unilateral constraints

Engineering main heading: Dynamic response

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