

Abstract

The approaches to the selection of design accelerograms parameters and number necessary and sufficient to calculate the buildings and structures for seismic impacts using the direct dynamic method are analyzed. The parameters of the structures stress-strain states and seismic responses under the influence of possible accelerograms set are compared based on the results analysis of the test calculations of a three-dimensional computer model of a multi-storey reinforced concrete building girderless frame using the direct dynamic calculation method with the "LIRA" software.

Keywords: seismic impact, multi-story building, time-history analysis, calculated accelerogram, stress-strain state

$\beta(\)$ [1],

[2].

[3].

[1, 4].

[5].

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