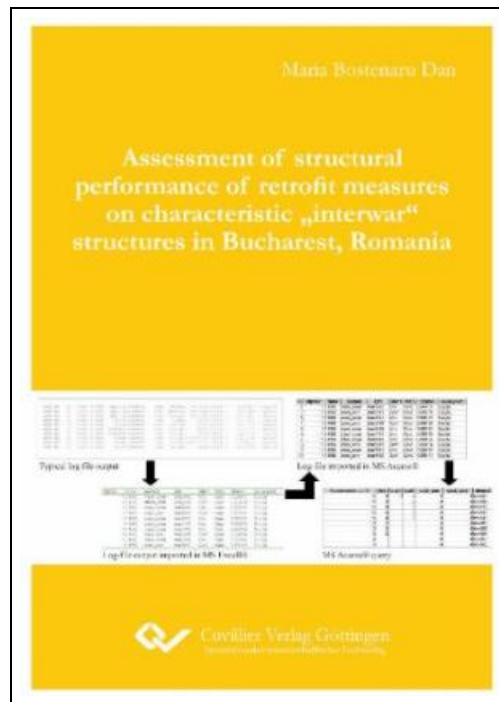


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(Percy Bernhard)

ASSESSMENT OF STRUCTURAL PERFORMANCE OF RETROFIT MEASURES ON CHARACTERISTIC "INTERWAR" STRUCTURES IN BUCHAREST, ROMANIA



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Cuvillier Verlag Nov 2010, 2010. Taschenbuch. Condition: Neu. Neuware - This study is dedicated to the preservation of the heritage of the Modern Movement, particularly through improving the structural response to seismic solicitations, which are common in some of the areas where significant works in this style can be found, including Bucharest, Romania. The focus is on developing and validating methodology according to which the vulnerability of 'interwar' buildings, which is the other name given to the blocks of flats which witnessed the Modern Movement in the Romanian capital. To complement this study with a geographical generalisation, the models proposed have been also tested for selected earthquakes, taking into account that the Modern Movement left its traces in form of that very characteristic blocks of flats there as well. Residences in form of blocks of flats of the Modern Movement have been built in Bucharest in the 1930s. They present a reinforced concrete frame structure, which infill walls of masonry bricks, although the latter could only be limitedly taken into account in this study. However, the method used remains perfectly valid. To determine the impacts of strong ground motion on a certain type of buildings, several approaches have been applied: - the static pushover curve analysis - displacement based dynamic time-history analysis - stress-strain approach based on the dynamic time-history analysis. These simulation types have been applied first to simple models, reproducing what in an experimental laboratory might be tested, then to models of progressively more complicated buildings, from regular frame structures, to real building models, which all the irregularities usual in the building practice in that time. The methodology adopted included use of several computer support tools, beginning with software for converting accelerograms, fibre based finite elements, spread sheet and database programs. A further step in testing the general validity has been the use of the same methodology for simplified models of real buildings which have been found to be of the same typology as the models...

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