Contributions to the Enhancement of the Structural Solutions and Computational Methods for the Structural Rehabilitation of the Masonry Buildings Subjected to Seismic Actions

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Summary

The paper is structured in 11 chapters which refer mainly to the actions in constructions, the realization and the properties of the masonry, the principles of the realization of the structures with the bearing walls, the calculus of the sections and masonry structures, the expertise of the constructions, the usage of the method of the finite element in the analysis of the structures with masonry walls.

The thesis is accompanied by an annex which contains the diagrams of the reaction force- displacement of a type of masonry proofs, to vertical and horizontal actions, depending on the variation of the physical-mechanical characteristics of the materials that are part of the masonry, the thickness of the binder layers, the type of the brick, the brand of the binder, the variation of the charge, Poisson's coefficient for bricks.

Keywords: masonry, cracks