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Statics and equilibrium paths of masonry stairs

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Abstract

In the paper one refers to some research under developments by the authors on specific stairs' typologies, in particular on cantilever and helical stairs, which are largely diffused in monumental buildings. The paper responds to professional practice which demands clear and sharp models for structural analysis and calculations, and simplified approaches for correctly interpreting their structural behaviour, and also for providing some indications supporting the design of proper refurbishments. © Baratta and Corbi, Licensee Bentham Open.

Author keywords

Cantilever stair; Equilibrium; Helical stair; Low tensile resistance; Masonry; No tension models; Stairs; Vaults

Indexed keywords

Equilibrium path; Masonry; Monumental buildings; Professional practices; Structural behaviour; Tensile resistance; Tension models; Vaults

Engineering controlled terms: Masonry materials; Nanocantilevers; Phase equilibria

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Statics and Equilibrium Paths of Masonry Stairs

The Open Construction and Building Technology Journal, 2012, 6: 368-372

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