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INTERAKCIJA TEMELJ-TLO I SANACIJA OBJEKTA MIKROŠIPOVIMA

Sažetak:

Interakcija tlo-temeljna konstrukcija ima za cilj da odredi reaktivne sile tla-stijene kao osnovu za optimizaciju konstrukcije. U ovom radu, analiziran je problem interakcije jednog individualnog stambenog objekta u naselju Vitinica, Opština Sapna. Objekat je u zadnjih 30 godina trpio različita oštećenja koja su bila vidljiva na zidovima, podu i stropnim konstrukcijama. Vlasnik je dva puta vršio sanaciju objekta ali bezuspješno. Vlasnik je do tada vršio podbetoniranja i ojačanja temelja. Istraživanjem je utvrđeno, da je objekat temeljen u dva različita litološka člana, da u dubini postoji rasjedna zona i da je objekat temeljen u blizini aktivnog klizišta. Oštećenja su nastala na osnovu deficita masa ispod jednog dijela temelja objekta i pogrešno izvedenim ranijim sanacionim mjerama. Sanacione mjere su odabrane na osnovu jasno definisane interakcije temelj - tlo.

Ključne riječi:

interakcija temelj-tlo, sanacione mjere

THE FOUNDATION-SOIL INTERACTION AND BUILDING RECOVERY BY MICROPILES

Summary:

Soil-structure interaction needs to define reactive forces of soil-rock as a base of structure optimization. The subject of this study is an interaction analysis for one individual housing unit in the Vitinica village, in the Sapna Municipality. The housing unit has been exposed to various damages in the past thirty years, as it is visible on its walls, floor and ceiling structure. The refurbishment works, sub-concreting and foundation reinforcement, undertaken by the house owner were unsuccessful.

The research has revealed that the house foundation is placed into two different lithological layers. The fault zone has been discovered in the ground depth and the house foundation has been constructed in the vicinity of an active landslide. The house damage was caused by weight deficit under one part of the foundation and earlier refurbishment measures erroneously performed. The recovery measures have been selected on the basis of distinctly defined interaction between foundation and soil.

Key words:

foundation-soil interaction, recovery measures

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