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ESTIMATING COMPRESSIVE STRENGTH OF MASONRY STRUCTURES WITH REGARD TO IN SITU TESTING

Estimate strength of the masonry as a structural material in existing building construction is a difficult issue to date and not fully solved. This issue is crucial in the development of expertise and facilities projects planned for reconstruction, modernization or revitalization, and when assessing their existing condition.

This dissertation concerns the methods for assessing the compressive strength of masonry as a structural material for example facilities located mainly in Szczecin. Indirect cause undertake research presented in this thesis were increasing signs of occurrence of adverse impact on the status of construction in many Szczecin objects from the period before the war. The analysis of information coming from different institutions revealed that a similar problem occurs in the entire block western so. "post-German" Polish part. These references were the direct cause of taking observations of these objects and to carry out detailed research in the West Pomeranian University of Technology in Szczecin. Conducted research on a regular basis coordinated with interested institutions, among others, Szczecin Refinishing Center, Department of Municipal Buildings and Premises, design offices, etc.

Dissertation performed the analysis and synthesis of world-renowned methods for determining compressive strength of masonry construction projects in existing and proposed own testing methods. In this approach attempt to resolve the issue under consideration was taken for the first time in the country.

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