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GEOMETRIC INTERPRETATION OF THE RESULTS OF MEASUREMENTS OF ENGINEERING STRUCTURES

The measurement and deformation determination of engineering structures are important problems in engineering surveying as they provide quantity data for the appraisal of their menace. The method of data capture decides about its credibility and possibility of providing technical information. In cause and effect interpretation presenting the achieved results in a way suggesting taking proper decisions is important. Hence the achieved results must undergo mathematical analysis and then they are shown graphically. The graphic form has to be legible and without deformations.

Thanks to the procedures making the visualization of information possible in systems 2D and 3D, both in rectification systems of CAD group and in other systems, there is a possibility of extending the interpretation of measurement results.

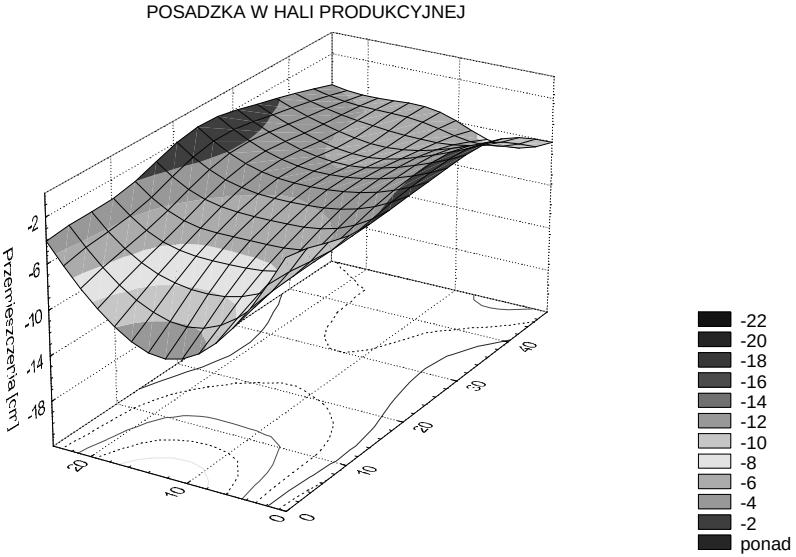

Fig. 1. Deviations of the floor from the horizontal plane in 2D and 3D

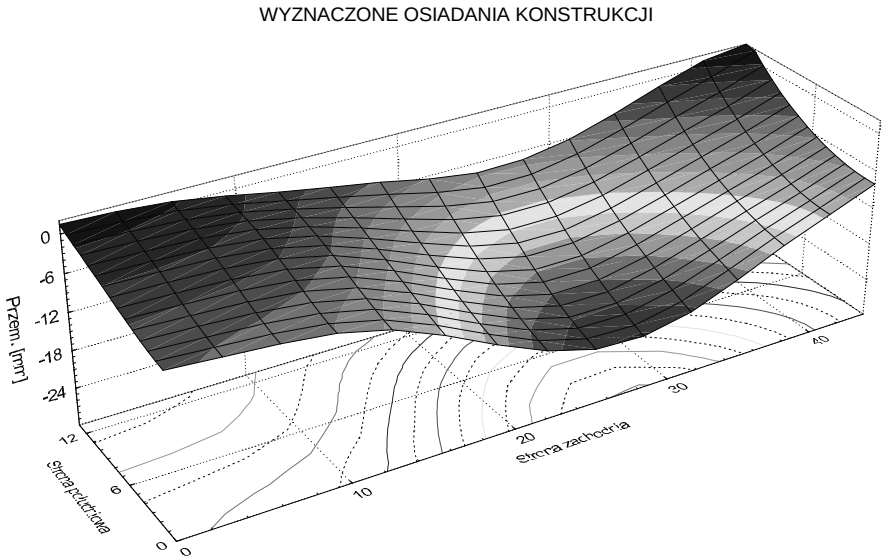

Fig. 2. Settlement in the building structure in 2D and 3D