

THEORY AND PRACTICE OF CONSTRUCTION OF AXONOMETRIC PROJECTS

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ABSTRACT

This article describes and discusses the first developed model-apparatus for the legitimate creation of axonometric projections. This apparatus consists of the coordinate axes of the preliminary basic view (OX, OY, OZ), an axonometric plane superimposed on the V plane, and the plane of motion of the OY axis (bisectors of the XOY-N and YOZ-W coordinate planes). Using this apparatus, axonometric projections of the coordinate axes, non-standard dimetries and standard isometry and dimetry are generated as a result of twisting (turning) the OY axis in the plane of motion. In this case, trimetric projections are formed if the OY axis deviates from its plane of motion during the turning process. It is also indicated that it is possible to build a graphical diagram of the relationship between the value of the axonometric axes and the angle of inclination of the axis OY using an axonometric apparatus and with its help determine the main parameters of the axonometry in a graphical way.

Keywords: Axonometry, theory, practice, image, existing abstract, image, canvas, vivid image, painter, engineer, building, architectural monument, technique, work of art, plan, facade, profile, coordinate plane, awakening period, graphic geometry, two and three dimensional projection, view, sketch, Monge method, In front of A”, the recovery property, the axonometric model-apparatus, the coefficient of variation, the axonometric axes, the angle, the standard isometry and dimetry, the axonometry diagram.