

PHENOMENON OF SYMMETRY IN THE HUMAN LIFE

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Symmetry is an idea that man, in his Pursuit to create order, beauty and perfection, has attempted to nurture and understand for ages. The ubiquity of the phenomenon of symmetry in nature has been reflected in fine arts (painting, sculpture, architecture) and this is what, among other things, proves the aesthetic significance of the phenomenon of symmetry.

Various scientific disciplines and professions analyze the phenomenon of symmetry according to the profile and area of their interest. Consequently, they come to the conclusion that symmetry plays a crucial role in the human life.

Symmetry, among other things, is associated with balance and order. To date, problems of symmetry have not been deliberated in the aspect of mutual relations of the elements of the man-technique-environment system, which in turn provides a basis for the functioning of a "young" interdisciplinary science known as "ergonomics", whose aim is the mutual "adjustment" of the elements of the system while maintaining the mutual balance of its elements, i.e. "order" and "harmony" (symmetry). The main factor that can disturb this balance is human activity and products of technique.

Ergonomics relates to all aspects of human life in the natural and artificial (created by man) environments. Analogies to symmetry result from the pursuit to maintain order and balance of elements in the world inhabited by man (humanocentrism), from the necessity of holistic approach to the solving of problems, from the ubiquity of ergonomics (intuitive or rational), its key role in the understanding of the world and in the pursuit to keep the systems in balance.

The paper will present problems of ergonomics in the aspects of the organisation and hierarchy of problems connected with the architectural designing of the material environment of man according to the "primum non nocere" principle.