



Lesena konstrukcija je že od nekdaj glavna sestavina arhitekture
Po: Wilhelm J., ARCHITECTURAE CIVILIS, Nürnberg 1668, Nachdruck Curt R. Vincentz Verlag, Hannover, 1977

NOSILNO DIMENZIONIRANJE Z ANTROPOMETRIČNIMI PROPORCIJSKIMI SISTEMI *DIMENSIONING CARRYING BUILDING ELEMENTS WITH ANTHROPOMETRIC PROPORTIONAL SYSTEMS*

raziskava, research

povzetek

Cilj raziskovalne naloge je bilo analitično preverjanje metod dimenzioniranja nosilnih gradbenih elementov s strukturo antropometričnih proporcijskih sistemov kot pripomočkov hkratnega merskega in nosilnega dimenzioniranja teh elementov.

Rezultati raziskave naj bi postali teoretska osnova novega načina merskega in nosilnega dimenzioniranja nosilnih gradbenih elementov za arhitekta.

Vplivi na določitev dimenzij gradbenih elementov so bili pravgotovo različni in številni. Večina vplivov je rezultat izbranih izkustvenih, eksperimentalnih ali teoretskih napotkov, pridobljenih v časovnem okviru razvoja arhitekture. Podana analiza vplivov na določitev dimenzij gradbenih elementov lahko postane tudi ena od metod, s katero moremo določevati dimenzije nosilnih prevez gradbenih elementov.

summary

The aim of the research assignment was to analytically examine the methods of dimensioning carrying building elements with the anthropometric proportional system structure.

Research results should be applied as the theoretical basis for a new metric and dimensioning method for carrying building elements for architects.

The definition of building-element dimensions was influenced by many different parameters. Most of the influences have been the result of an experiential, experimental and theoretical advice selection acquired over the development of architecture. The article presents an analysis of the parameters influencing the definition of building-element dimensions which can be transformed in one of the methods used for the definition of dimensions of carrying profiles in building materials.

doseženi cilji, namen in rezultati

Rezultati teoretskih preverjanj in usklajevanj metod dimenzioniranja nosilnih gradbenih elementov s strukturo dimenzijskih razmerij potrjujejo, da se oblikuje nova teoretska osnova "avtomatičnega" merskega in nosilnega dimenzioniranja teh gradbenih elementov.

aims achieved, intentions and results

The results of theoretical examinations and adjustments of the methods of dimensioning carrying building elements with the structure of dimensional proportions confirm that a new theoretical basis for an "automatic" metric and carrying dimensioning of such building materials is being formed.

problematika v arhitekturi, umestitev obravnavane teme v te tokove in njen pomen

Izhajamo iz podmene, da je bilo znanje matematike in geometrije ter poznavanje eksperimentiranja v antiki na tako visoki stopnji, da je bila izvedba obremenitvenih poskusov, merjenja in primerjanja rezultatov ter formuliranje spoznanj popolnoma mogoča. Enako domnevamo, da so znali izkustvena spoznanja, pridobljena s poizkusi, strniti v praktično uporabnost sorazmerij antropometričnih sistemov.

problematics, topic placement and significance in architecture

It is presumed that ancient times boasted of such knowledge of mathematics and geometry and of such a familiarity with experiments that an execution of burden experiments and measurements, result comparison, as well as the formulation of realisations were possible. It is equally presumed that experiential realisations acquired through experiments functioned as a basis for practical applications of proportions in anthropometric systems.

ključne besede

antropometrični proporcijski sistemi, egiptovski komolec, nosilno dimenzioniranje

key words

anthropometric proportional systems, egyptian elbow, loadbearing dimensioning