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**GEOMETRICAL REGULARITIES  
IN HISTORICAL ARCHITECTURE.  
ANALYSIS OF GOTHIC VAULTS OF GDAŃSK**

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The craftsmanship of medieval builders is not only awe-inspiring but also intriguing when it comes to still undiscovered technical secrets. Architectural and archive studies, new discoveries and observations gradually reveal the long forgotten rules and methods, which never were documented in written sources. The oldest known Polish construction guide, entitled *A short architectural study of manors, palaces, and castles under the Polish sky and tradition* (in Polish, *Krótką nauka budownicza dworów, pałaców, zamków podług nieba i zwyczaju polskiego*) originates from 1659 only.

The author's work focuses on Gothic vaults and the methods and ways of their erection which were particularly well developed in Gdansk and Pomerania. She studies over five hundred years old constructions, as well as ones reconstructed after the Second World War and analyses drawing and photograph records. Basing upon the oldest architectural designs and drawings documented in an old master print of 1695 she develops virtual reconstructions of vaults of various forms.

**References:**

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