

A Geometry of Early Islam – Nesting Polygons

“3D Thinking” Page 190, 191: There are a number of Islamic design methodologies of which the “Nesting Polygon” method is one. The method places an arrangement of polygons within a polygon and continues infinitely placing the same but scaled arrangement within each polygon as it appears. The method was used to generate a lattice from which designs can be extracted. In the example an arrangement of nine octagons is placed inside each octagon as it occurs. The method anticipates fractal geometry – a development that happened some twelve hundred years later.

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