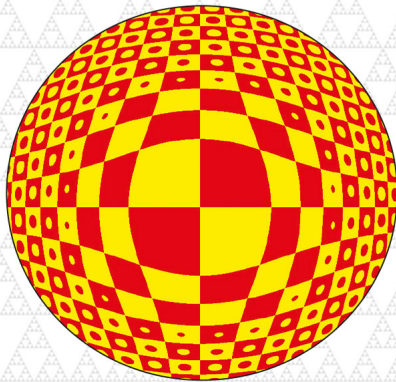


Patternland - English version

PIER FRANCESCO SCIUTO

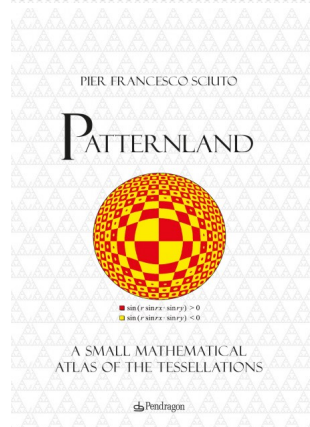
PATTERNLAND



■ $\sin(r \sin x \cdot \sin y) > 0$
■ $\sin(r \sin x \cdot \sin y) < 0$

A SMALL MATHEMATICAL
ATLAS OF THE TESSELLATIONS

 Pendragon



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Descrizione

If it is true, as Galileo Galilei said, that “the universe is written in a mathematical language, and the characters are triangles, circles and other geometric figures, without these it is a vain wandering through a dark labyrinth,” this book helps to find harmony, regularity and beauty in it. In fact, through constant and assiduous research, the author has created more than three hundred inequalities that give rise to as many patterns for rearranging the world. And he launches a fascinating hypothesis: that underlying the stone or ceramic inlays lining the walls and floors of some ancient monuments, previously considered the work of artisans armed only with a ruler and compass, may be previously calculated mathematical disequations. From the Greek and Roman worlds, to our own Middle Ages and the splendid Islamic tessellations, Sciuto's formulas (using only the mathematical and trigonometric knowledge of the time, unchanged since the 2nd century B.C. for more than 1,600 years) go further, touching on art and artists of the early 20th century, with geometric effects sometimes rigorous sometimes psychedelic, but always surprising. To suggest that really a mathematical formula, more or less simple, may underlie everything we know. Are you ready for an immersive journey into the tessellated world of patterns?

The author

Pier Francesco Sciuto (1960), a graduate in Geological Sciences from Pisa, PhD in Geochemistry, has worked in mineralogy, marine geology, geographic information systems and applied geology. Since 2002 he has worked at the Seismic and Soil Geological Service of the Emilia-Romagna Region. Passionate about art, history and mathematics, he is currently the curator of the Museo Giardino Geologico Sandra Forni collection in Bologna and is involved in science popularization. He's the author of *Patternland* (Pendragon, 2022).