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Nota di contenuto	Contents ; Preface ; Chapter 1 Introduction ; 1.1 Geometry and Its Basic Terms ; 1.2 Transformations and Symmetry Groups ; 1.3 Classification of Symmetry Transformations and Groups ; 1.4 Visual Interpretations of Symmetry Groups ; 1.5 Construction Methods. Desymmetrizations 1.6 Symbols of Symmetry Groups 1.7 Geometric-Visual Analysis of Symmetry Groups ; Chapter 2 Theory of Isometric Symmetry Groups in E2 and Ornamental Art ; 2.1 Symmetry Groups of Rosettes G20 ; 2.1.1 Rosettes and Ornamental Art ; 2.2 Symmetry Groups of Friezes G21 2.2.1 Friezes and Ornamental Art 2.3 Symmetry Groups of Ornaments G2 ; 2.3.1 Ornaments and Ornamental Art ; Chapter 3 Similarity Symmetry in E2 ; 3.1 Similarity Symmetry Groups of Rosettes S20 ; 3.1.1 Similarity Symmetry Rosettes and Ornamental Art Chapter 4 Conformal Symmetry in $E2 \setminus \{O\}$ 4.1 Conformal Symmetry Groups in $E2 \setminus \{O\}$ ; 4.1.1 Conformal Symmetry Rosettes and Ornamental Art

; Chapter 5 The Theory of Symmetry and Ornamental Art  
; Chapter 6 Modularity in Art ; Bibliography  
; Index

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Sommario/riassunto

This book discusses the origins of ornamental art - illustrated by the oldest examples, dating mostly from the paleolithic and neolithic ages, and considered from the theory-of-symmetry point of view. Because of its multidisciplinary nature, it will interest a wide range of readers: mathematicians, artists, art historians, architects, psychologists, and anthropologists. The book represents the complete analysis of plane symmetry structures, so it can be used by artists as a guide to the creation of new symmetry patterns. Some parts of the contents (such as Chapter 4, about conformal symmetry

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