Foreword xi
Acknowledgments xiii
1. Introduction 1
2. Theoretical Background 3
3. Symmetry Analysis Procedures 11
Introduction 11
Definition of the Symmetry of Plane Patterns 12
Nomenclature of the Symmetry Classes 15
Procedure of Analysis 18
4. Generation of Symmetry Classes in the Three Categories of Plane Pattern Design 23
Generation of Finite Patterns 23
Generation of One-Dimensional Infinite Patterns 25
Generation of Two-Dimensional Infinite Patterns 26
5. Symmetry of Upper Gila Finite Designs 46
Symmetry of Structure and Symmetry of Whole Design 46
Functions of Motifs 51
Symmetry of Motifs and Fillers 52
6. Symmetry of Upper Gila One-Dimensional Designs 56
Symmetry of Structure and Symmetry of Whole Design 56
Symmetry of Motifs 107
Symmetry of Fillers 113
7. Symmetry of Upper Gila Two-Dimensional Designs 119
Symmetry of Structure and Symmetry of Whole Design 119
Symmetry of Fillers and Motif-Units 135
8. Symmetry of Trim Designs 136
Ladle Handles 136
Pitcher and Jar Necks 141
Exterior Designs on Vessels with One-Dimensional Designs on Vessel Interiors 151
Exterior Designs on Vessels with Two-Dimensional Designs on Vessel Interiors 162
9. Analysis and Interpretation 165
Methodology of Analysis 165
Intersite Analysis 168
Intrasite Analysis 173
Conclusion 185
Bibliography 190