

Contents

Preface	v
Abbreviations and Notations	ix
1 The Invariance Principle	1
2 Coloring Proofs	25
3 The Extremal Principle	39
4 The Box Principle	59
5 Enumerative Combinatorics	85
6 Number Theory	117
7 Inequalities	161
8 The Induction Principle	205
9 Sequences	221
10 Polynomials	245
11 Functional Equations	271

12	Geometry	289
13	Games	361
14	Further Strategies	373
	References	397
	Index	401