

## Contents

Preface	vii
Application of Logic to Combinatorial Sequences and Their Recurrence Relations	
E. FISCHER, T. KOTEK, and J. A. MAKOWSKY	1
Spectra and Systems of Equations	
J. P. BELL, S. N. BURRIS, and K. YEATS	43
Compton's Method for Proving Logical Limit Laws	
J. P. BELL and S. N. BURRIS	97
Logical Complexity of Graphs: A Survey	
O. PIKHURKO and O. VERBITSKY	129
Methods for Algorithmic Meta Theorems	
M. GROHE and S. KREUTZER	181
On Counting Generalized Colorings	
T. KOTEK, J. A. MAKOWSKY, and B. ZILBER	207
Counting Homomorphisms and Partition Functions	
M. GROHE and M. THURLEY	243
Some Examples of Universal and Generic Partial Orders	
J. HUBIČKA and J. NEŠETŘIL	293
Two Problems on Homogeneous Structures, Revisited	
G. CHERLIN	319
On Symmetric Indivisibility of Countable Structures	
A. HASSON, M. KOJMAN, and A. ONSHUUS	417
Partitions and Permutation Groups	
A. BLASS	453
(Un)countable and (Non)effective Versions of Ramsey's Theorem	
D. KUSKE	467
Reducts of Ramsey Structures	
M. BODIRSKY and M. PINSKER	489