TABLE OF CONTENTS

CHAPTER I
TYPES OF LATTICES 1

CHAPTER II
POSTULATES FOR LATTICES 20

CHAPTER III
STRUCTURE AND REPRESENTATION THEORY 55

CHAPTER IV
GEOMETRIC LATTICES 80

CHAPTER V
COMPLETE LATTICES 111

CHAPTER VI
UNIVERSAL ALGEBRA 132

CHAPTER VII
APPLICATIONS TO ALGEBRA 159

CHAPTER VIII
TRANSFINITE INDUCTION 180

CHAPTER IX
APPLICATIONS TO GENERAL TOPOLOGY 211

CHAPTER X
METRIC AND TOPOLOGICAL LATTICES 230

CHAPTER XI
BOREL ALGEBRAS AND VON NEUMANN LATTICES . . . 254

CHAPTER XII
APPLICATIONS TO LOGIC AND PROBABILITY 277

CHAPTER XIII

LATTICE-ORDERED GROUPS 287

CHAPTER XIV

LATTICE-ORDERED MONOIDS 319

CHAPTER XV

VECTOR LATTICES 347

CHAPTER XVI

POSITIVE LINEAR OPERATORS 380

CHAPTER XVII

LATTICE-ORDERED RINGS 397

BIBLIOGRAPHY 411

ADDITIONAL REFERENCES 415

INDEX 417