

## Contents

<b>Chapter V: Generalized Orthomodular Lattices . . . . .</b>	<b>162</b>
1. Orthogonality relation . . . . .	162
2. Janowitz's embedding . . . . .	169
3. Congruence relations . . . . .	174
4. Congruence relations and p-ideals . . . . .	182
5. Commutators . . . . .	192
<b>Exercises . . . . .</b>	<b>197</b>
<b>Chapter VI: Solvability of Generalized Orthomodular Lattices . . . . .</b>	<b>199</b>
1. Reflective and coreflective congruences . . . . .	199
2. Projective allelomorph . . . . .	214
3. Commutator sublattices . . . . .	219
4. Solvability in equational classes of lattices . . . . .	228
<b>Exercises . . . . .</b>	<b>232</b>
<b>Chapter VII: Special Properties of Orthomodularity . . . . .</b>	<b>235</b>
1. Commutators of n elements . . . . .	235
2. Finitely generated orthomodular lattices . . . . .	246
3. Formulas for orthomodular lattices . . . . .	257
4. Exchange theorems . . . . .	262
5. Center of an orthomodular lattice . . . . .	267
6. Identities and operations . . . . .	270
7. Analogues of Foulis-Holland Theorem . . . . .	277
<b>Exercises . . . . .</b>	<b>286</b>
<b>Chapter VIII: Application . . . . .</b>	<b>289</b>
1. Orthomodularity and experimental propositions . . . . .	289
2. Compatibility . . . . .	304
3. Dimension theory . . . . .	312
4. Orthologics . . . . .	325
<b>Exercises . . . . .</b>	<b>338</b>

Answers to Exercises . . . . .	342
Solutions to Exercises of Chapter II . . . . .	342
Solutions to Exercises of Chapter III . . . . .	346
Solutions to Exercises of Chapter IV . . . . .	349
Solutions to Exercises of Chapter V . . . . .	354
Solutions to Exercises of Chapter VI . . . . .	357
Solutions to Exercises of Chapter VII . . . . .	362
Solutions to Exercises of Chapter VIII . . . . .	367
References . . . . .	375
Subject Index . . . . .	390