

CONTENTS

CONTENTS	5
INTRODUCTION	9

I. ALGEBRAIC NOTIONS APPLIED TO CYLINDRIC-LIKE ALGEBRAS

1. ANDRÉKA, H. and NÉMETI, I.: Reducing First-order Logic to Df_3 , Free Algebras	15
2. BEZHANISHVILI, N.: Varieties of Two-Dimensional Cylindric Algebras	37
3. HIRSCH, R. AND HODKINSON, I.: Completions and Complete Representations	61
4. MADARÁSZ, J. and SAYED AHMED, T.: Amalgamation, Interpolation and Epimorphisms in Algebraic Logic	91
5. SAYED AHMED, T.: Neat Reducts and Neat Embeddings in Cylindric Algebras	105

II. REPRESENTATION THEORY

1. FERENCZI, M.: A New Representation Theory: Representing Cylindric-like Algebras by Relativized Set Algebras	135
2. SIMON, A.: Representing all Cylindric Algebras by Twisting, On a Problem of Henkin	163

III. NOTIONS OF LOGIC RELATED TO CYLINDRIC-LIKE ALGEBRAS

1. KURUCZ, A.: Representable Cylindric Algebras and Many-Dimensional Modal Logics 185
2. SAYED AHMED, T.: Completions, Complete Representations and Omitting Types 205
3. SERÉNY, G.: Elements of Cylindric Algebraic Model Theory 223
4. VENEMA, Y.: Cylindric Modal Logic 249

IV. APPLICATIONS OF CYLINDRIC-LIKE ALGEBRAS

1. VAN BENTHEM, J.: Crs and Guarded Logics: A Fruitful Contact .. 273
2. ĐORĐEVIĆ, R. S. and RAŠKOVIĆ, M. D.: Cylindric Probability Algebras 303
3. DÜNTSCH, I.: Cylindric Algebras and Relational Databases 321
4. FERENCZI, M.: Probability Measures and Measurable Functions on Cylindric Algebras 333

V. OTHER ALGEBRAIC VERSIONS OF LOGIC

1. MANN, A.: Cylindric Set Algebras and IF Logic 351
2. SÁGI, G.: Polyadic Algebras 367

VI. CONNECTIONS WITH ABSTRACT ALGEBRAIC LOGIC AND UNIVERSAL LOGIC

1. SAIN, I.: Definability Issues in Universal Logic 393

BIBLIOGRAPHY 421

INDEX OF SYMBOLS 463

INDEX OF NAMES AND SUBJECTS 469