

## ON FULL CYLINDRIC SET ALGEBRAS

THOMAS A. SUDKAMP

By a full cylindric set algebra of dimension  $\alpha$ , full  $\mathbf{CSA}_\alpha$ , where  $\alpha$  is an ordinal number, we mean a system

$$\mathfrak{A} = \langle A, \cup, \cap, \sim, 0, {}^\alpha U, \mathbf{C}_\kappa, \mathbf{D}_{\kappa\lambda} \rangle_{\kappa, \lambda < \alpha}$$

where  $U$  is a non-empty set,  $A$  is the power set of  ${}^\alpha U$ ,  $0$  is the empty set,  $\cup$ ,  $\cap$ , and  $\sim$  are the set theoretic union, intersection and complement on  $A$ , and for all  $\kappa, \lambda < \alpha$ ,  $\mathbf{C}_\kappa$  is a unary operation on  $A$  and  $\mathbf{D}_{\kappa\lambda}$  is a constant defined as follows:

$$\mathbf{C}_\kappa X = \{y: y \in {}^\alpha U \text{ and for some } x \in X \text{ we have } x_\lambda = y_\lambda \text{ for all } \lambda \neq \kappa\}$$

for every  $X \in A$ ,

and

$$\mathbf{D}_{\kappa\lambda} = \{y: y \in {}^\alpha U \text{ and } y_\kappa = y_\lambda\}$$

(*cf.* 1.1.5, [2]). In section 1 we give an axiom system for a subclass of cylindric algebras, which we call strong cylindric algebras, and show that  $\mathfrak{A}$  is a strong  $\mathbf{CA}_\alpha$ ,  $\alpha < \omega$ , if, and only if,  $\mathfrak{A}$  is isomorphic to a full  $\mathbf{CSA}_\alpha$ .

In section 2 we restrict our attention to the theory of strong  $\mathbf{CA}_2$  and show that it is definitionally equivalent to the theory of a subclass of relation algebras axiomatized by McKinsey [3].

The notation of [1] is used, and a familiarity with chapter 1 of that book is assumed.

**1 Strong cylindric algebras** We begin by introducing a piece of notation which will prove to be convenient.

*Definition 1.1* If  $\mathfrak{A}$  is a  $\mathbf{CA}_\alpha$ ,  $\alpha < \omega$ , and  $i < \alpha$ , then

$$\mathbf{c}^i x = \mathbf{c}_{(\alpha-1)\{i\}} x.$$

*Definition 1.2* By a strong cylindric algebra of dimension  $\alpha$ , where  $\alpha$  is an ordinal number less than  $\omega$ , we mean a structure

$$\mathfrak{A} = \langle A, +, \cdot, -, 0, 1, \mathbf{c}_\kappa, \mathbf{d}_{\kappa\lambda} \rangle_{\kappa, \lambda < \alpha}$$

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# Cylindric Set Algebras

**Léo Pomar**



## **Cylindric Set Algebras:**

## Decoding **Cylindric Set Algebras**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Cylindric Set Algebras**," a mesmerizing literary creation penned by a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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