



Braids and Self-Distributivity

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Book Condition: New. Publisher/Verlag: Springer, Basel | This is the award-winning monograph of the Sunyer i Balaguer Prize 1999. The book presents recently discovered connections between Artin's braid groups and left self-distributive systems, which are sets equipped with a binary operation satisfying the identity $x(yz) = (xy)(xz)$. Although not a comprehensive course, the exposition is self-contained, and many basic results are established. In particular, the first chapters include a thorough algebraic study of Artin's braid groups. | A: Ordering the Braids.- I. Braids vs. Self-Distributive Systems.- I.1 Braid Groups.- I.2 Braid Colourings.- I.3 A Self-Distributive Operation on Braids.- I.4 Extended Braids.- I.5 Notes.- II. Word Reversing.- II.1 Complemented Presentations.- II.2 Coherent Complements.- II.3 Garside Elements.- II.4 The Case of Braids.- II.5 Double Reversing.- II.6 Notes.- III. The Braid Order.- III.1 More about Braid Colourings.- III.2 The Linear Ordering of Braids.- III.3 Handle Reduction.- III.4 Alternative Definitions.- III.5 Notes.- IV. The Order on Positive Braids.- IV.1 The Case of Three Strands.- IV.2 The General Case.- IV.3 Applications.- IV.4 Notes.- IV. Appendix: Rank Tables.- B: Free LD-systems.- V. Orders on Free LD-systems.- V.1 Free Systems.- V.2 The Absorption Property.- V.3 The Confluence Property.- V.4 The Comparison Property.- V.5 Canonical Orders.- V.6 Applications.- V.7...



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Reviews

Extensive information for book fans. It is written in basic words and never hard to understand. It is extremely difficult to leave it before concluding, once you begin to read the book.

-- Otis Wisoky

This publication is great. It is full of wisdom and knowledge. You will not really feel monotony at any time of the time (that's what catalogs are for relating to when you ask me).

-- Dr. Everett Dicki DDS