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Nota di contenuto	P.A. Azeef Muhammed and C. S. Preenu, Cross-connections in Clifford semigroups -- I.M. Evseev and A.E. Guterman, A range of the multidimensional permanent on $(0,1)$ -matrices -- Nikita V. Kitov and Mikhail V. Volkov, Identities in twisted Brauer monoids -- Alanka Thomas and P.G. Romeo, Group lattices over division rings -- M. N. N. Namboodiri, Structure Of The Semi-group Of Regular Probability Measures On Locally Compact Hausdorff Topological Semiroups -- P. Panjarikea, K. Syam Prasad, M. Al-ahan, V. Bhatta and H. Panackal, On lattice vector spaces over a distributive lattice -- Mark V. Lawson, Non-commutative Stone duality -- A R Rajan, Compatible and Discrete Normal Categories -- S. N. Arjun and P. G. Romeo, On category of Lie algebras -- K.V. Didimos, Application of Geometric Algebra to Koga's Work on Quantum Mechanics -- R. Salvankar, K. Babushri Srinivas, H. Panackal, and K. S. Prasad, Generalised essential submodule graph of an R-module -- A. Babu and N. Asharaf, Numerical solution of one-

dimensional hyperbolic telegraph equation using collocation of cubic B-splines -- G. Krishna Kumar and J. Augustine -- $(n,)$ -Condition Spectrum of Operator Pencils -- W. Bauer and R. Fulsche, Resolvent algebra in Fock-Bargmann representation.

Sommario/riassunto

This book contains chapters on a range of topics in mathematics and mathematical physics, including semigroups, algebras, operator theory and quantum mechanics, most of them have been presented at the International Conference on Semigroup, Algebras, and Operator Theory (ICSAOT-22), held at Cochin, Kerala, India, from 28–31 March 2022. It highlights the significance of semigroup theory in different areas of mathematics and delves into various themes that demonstrate the subject's diverse nature and practical applications. One of the key features of the book is its focus on the relationship between geometric algebra and quantum mechanics. The book offers both theoretical and numerical approximation results, presenting a comprehensive overview of the subject. It covers a variety of topics, ranging from C-algebraic models to numerical solutions for partial differential equations. The content of the book is suitable for active researchers and graduate students who are just beginning their studies in the field. It offers insights and practical applications that would be valuable to anyone interested in the mathematical foundations of physics and related fields. Overall, this book provides an excellent resource for anyone seeking to deepen their understanding of the intersections between mathematics and physics.
