



Applications of Hyperstructure Theory (Advances in Mathematics)

P. Corsini, V. Leoreanu

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Some mathematical disciplines can be presented and developed in the context of other disciplines, for instance Boolean algebras, that Stone has converted in a branch of ring theory, projective geometries, characterized by Birkhoff as lattices of a special type, projective, descriptive and spherical geometries, represented by Prenowitz, as multigroups, linear geometries and convex sets presented by Jantosciak and Prenowitz as join spaces. As Prenowitz and Jantosciak did for geometries, in this book we present and study several mathematical disciplines that use the Hyperstructure Theory. Since the beginning, the Hyperstructure Theory and particularly the Hypergroup Theory, had applications to several domains. Marty, who introduced hypergroups in 1934, applied them to groups, algebraic functions and rational fractions. New applications to groups were also found among others by Eaton, Ore, Krasner, Utumi, Drbohlav, Harrison, Roth, Mockor, Sureau and Haddad. Connections with other subjects of classical pure Mathematics have been determined and studied: Fields by Krasner, Stratigopoulos and Massouros. Ch. Lattices by Mittas, Comer, Konstantinidou, Serafimidis, Leoreanu and Calugareanu. Rings by Nakano, Kemprasit, Yuwaree. Quasigroups and Groupoids by Koskas, Corsini, Kepka, Drbohlav, Nemeč. Semigroups by Kepka, Drbohlav, Nemeč, Yuwaree, Kempprasit, Punkla, Leoreanu. Ordered Structures by Prenowitz, Corsini, Chvalina. IX Combinatorics by Comer, Tallini, Migliorato, De Salvo, Scafati, Gionfriddo, Scorzoni. Vector Spaces by Mittas. Topology by Mittas, Konstantinidou. Ternary Algebras by Bandelt and Hedlikova.

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