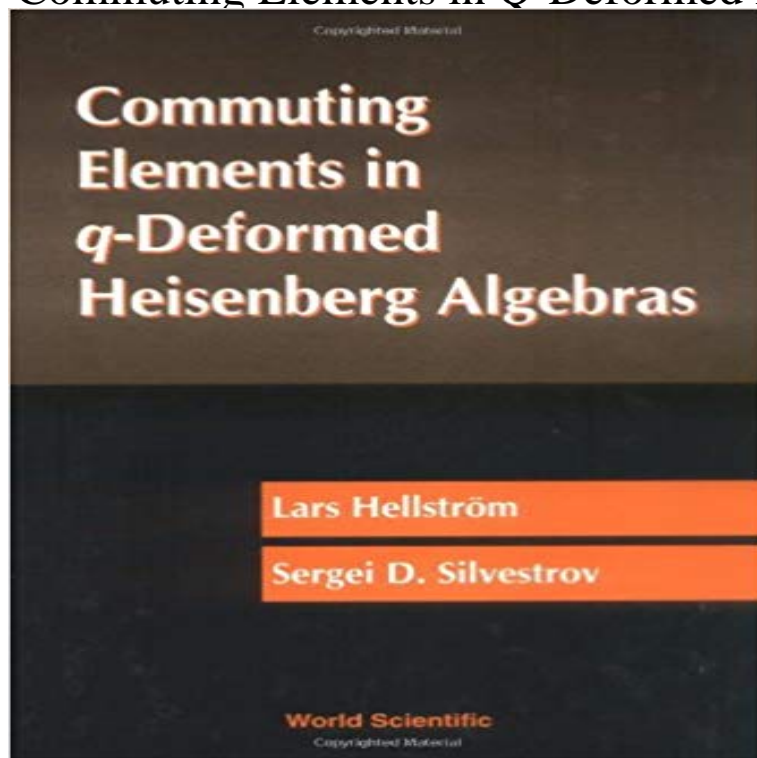


Commuting Elements in Q-Deformed Heisenberg Algebras



The structure of commuting elements in an algebra is of fundamental importance for its structure and representation theory as well as for its applications. The main objects studied in this monograph are q -deformed Heisenberg algebras - more specifically, commuting elements in q -deformed Heisenberg algebras. In this book the structure of commuting elements in q -deformed Heisenberg algebras is studied in a systematic way. Many results are presented with complete proofs. Several appendices with some general theory used in other parts of the book include material on the Diamond lemma for ring theory, a theory of degree functions in arbitrary associative algebras, and some basic facts about q -combinatorial functions over an arbitrary field. The bibliography contains, in addition to references on q -deformed Heisenberg algebras, some selected references on related subjects and on existing and potential applications. The book is self-contained, as far as proofs and the background material are concerned.

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