



# Quantum Groups and Their Representations (Theoretical and Mathematical Physics)

*By Anatoli Klimyk, Konrad Schmüdgen*

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Review

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"Klimyk and Schmüdgen are kind to their readers. Proofs are given in full, and there are helpful explanations of the basic concepts ... the book has the virtue of comprehensiveness in its chosen range of topics. It is easy to dip into and use as a reference book." (A. Sudbery, *Bulletin of the London Mathematical Society*, 2000)

From the Back Cover

This book starts with an introduction to quantum groups for the beginner and continues as a textbook for graduate students in physics and in mathematics. It can also be used as a reference by more advanced readers.

The authors cover a large but well-chosen variety of subjects from the theory of quantum groups (quantized universal enveloping algebras, quantized algebras of functions) and  $q$ -deformed algebras ( $q$ -oscillator algebras), their representations and corepresentations, and noncommutative differential calculus. The book is written with potential applications in physics and mathematics in mind. The basic quantum groups and quantum algebras and their representations are given in detail and accompanied by explicit formulas. A number of topics and results from the more advanced general theory are developed and discussed.

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