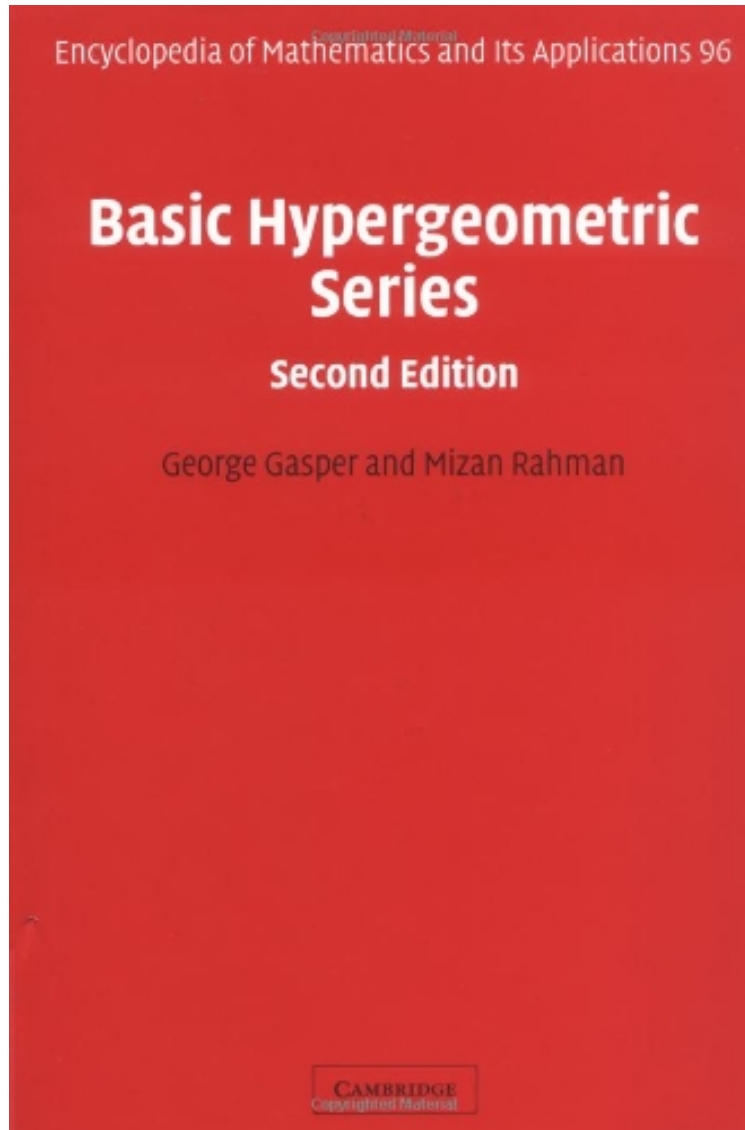


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# Basic Hypergeometric Series (Encyclopedia of Mathematics and its Applications)

*George Gasper, Mizan Rahman*

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2 of 2 people found the following review helpful. EncyclopedicBy S. L. StarrIf you are looking for q-hypergeometric series this is THE book. On the publisher's website they give you a sneak-peek of the first chapter which is already

wonderfully useful. But remember that in the book there are also many exercises. If you think there's a formula relating to the  $q$ -binomial theorem, say, then check there. It's also great that they answer questions about partitions into sums of squares, as well as mentioning applications to statistical mechanics and just partition function identities (like Rogers-Ramanujan). Maybe they could play-up the applications to representations of quantum groups such as  $U_q(\mathfrak{sl}_2)$  if there are some. But on the whole this book is wonderful, and wonderfully complete. 4 of 4 people found the following review helpful. Solid Reference By Lorenz H. Menke, Jr. A solid reference on the subject. Material on generalized hypergeometric functions (starting with Gauss' hypergeometric function) is presented followed by the  $q$  analogies. The material is advanced and is well written with a tight and readable typeface. The introduction to  $q$  series will satisfy the beginner. The list of about 500 references covering the entire subject is worth the price alone. Lorenz H. Menke, Jr.

This updated edition will continue to meet the needs for an authoritative comprehensive analysis of the rapidly growing field of basic hypergeometric series, or  $q$ -series. It includes deductive proofs, exercises, and useful appendices. Three new chapters have been added to this edition covering  $q$ -series in two and more variables: linear- and bilinear-generating functions for basic orthogonal polynomials; and summation and transformation formulas for elliptic hypergeometric series. In addition, the text and bibliography have been expanded to reflect recent developments. First Edition Hb (1990): 0-521-35049-2

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