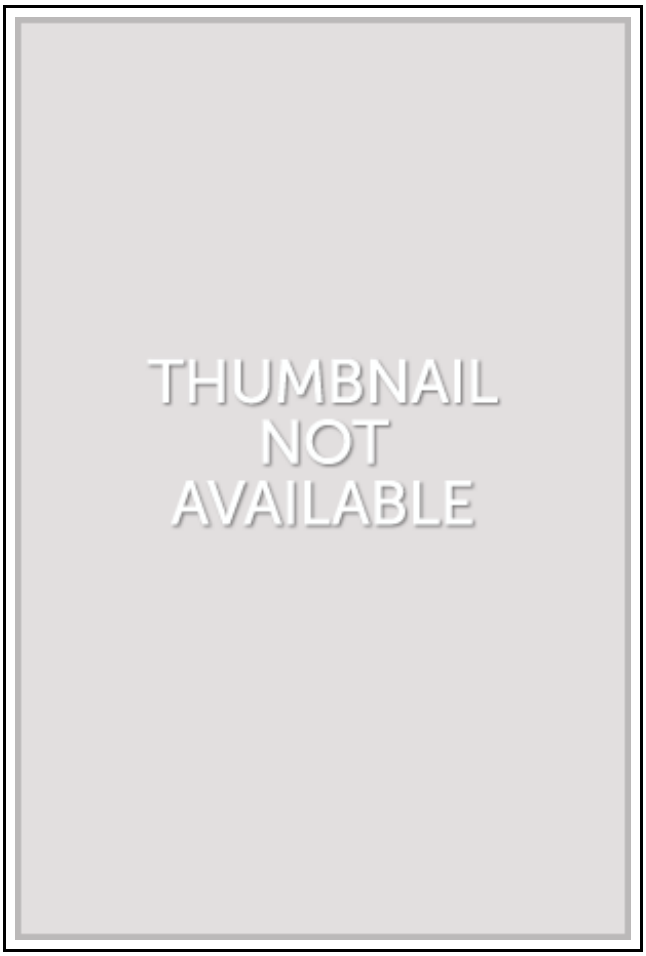
Arithmetical Investigations: Representation Theory, Orthogonal Polynomials, and Quantum Interpolations



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Springer. Paperback. Book Condition: New. Paperback. 222 pages. Dimensions: 9.3in. x 6.1in. x 0.6in.In this volume the author further develops his philosophy of quantum interpolation between the real numbers and the p-adic numbers. The p-adic numbers contain the p-adic integers Zp which are the inverse limit of the finite rings Zpn. This gives rise to a tree, and probability measures w on Zp correspond to Markov chains on this tree. From the tree structure one obtains special basis for the Hilbert space L2(Zp, w). The real analogue of the p-adic integers is the interval -1, 1, and a probability measure w on it gives rise to a special basis for L2(-1, 1, w) - the orthogonal polynomials, and to a Markov chain on finite approximations of -1, 1. For special (gamma and beta) measures there is a quantum or q-analogue Markov chain, and a special basis, that within certain limits yield the real and the p-adic theories. This idea can be generalized variously. In representation theory, it is the quantum general linear group GLn(q)that interpolates between the p-adic group GLn(Zp), and between its real (and complex) analogue -the orthogonal On (and unitary Un)groups. There is a similar quantum interpolation between the real and p-adic Fourier transform and between the real and p-adic (local unramified part of) Tate thesis, and Weil explicit sums. This item ships from multiple locations. Your book may arrive from Roseburg,OR, La Vergne,TN. Paperback.

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