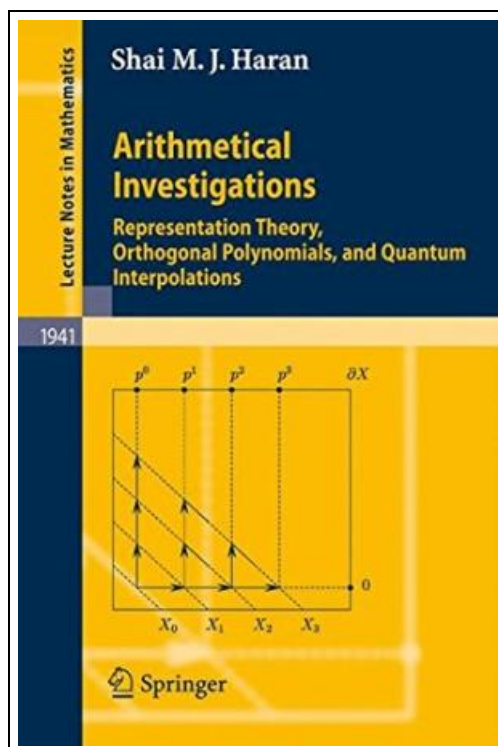


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ARITHMETICAL INVESTIGATIONS: REPRESENTATION THEORY, ORTHOGONAL POLYNOMIALS, AND QUANTUM INTERPOLATIONS



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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 Z_p which are the inverse limit of the finite rings Z_{p^n} . This gives rise to a tree, and probability measures w on Z_p correspond to Markov chains on this tree. From the tree structure one obtains special basis for the Hilbert space $L^2(Z_p, w)$. 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 $L^2(-1, 1, w)$ - 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 $GL_n(q)$ that interpolates between the p-adic group $GL_n(Z_p)$, and between its real (and complex) analogue - the orthogonal O_n (and unitary U_n) 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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