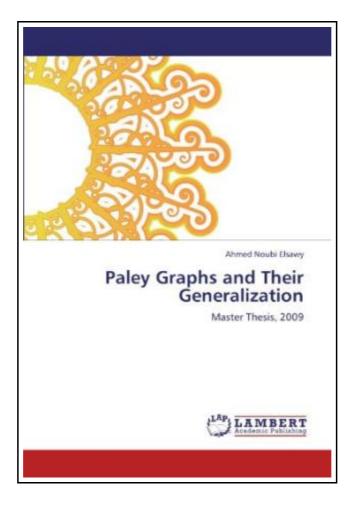
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PALEY GRAPHS AND THEIR GENERALIZATION



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LAP Lambert Academic Publishing, Paperback. Book Condition: New. Paperback. 52 pages. Dimensions: 8.7in. x 5.9in. x 0.1in.To construct a Paley graph, we fix a finite field and consider its elements as vertices of the Paley graph. Two vertices are connected by an edge if their difference is a square in the field. We study some important properties of the Paley graphs. In particular, we show that the Paley graphs are connected, selfcomplementary, and symmetric. Also we show that the Paley graph of order q is (q-1)2 regular, and every two adjacent vertices have (q-5)4 common neighbors, and every two non-adjacent vertices have q-14 common neighbors. In other words, the Paley graphs are strongly regular with parameters(q, q-12, q-54, q-14). Paley graphs are generalized by many mathematicians. We give three examples of these generalizations and some of their basic properties. We also define a new generalization of the Paley graphs, in which pairs of elements of a finite field are connected by an edge iff there difference belongs to the m-th power of the multiplicative group of the field, for any odd integer m 1, and we call them the m-Paley graphs. We show that the m-Paley graph of order q is complete iff gcd(m, q - 1)1 and when d gcd(m, q - 1) 1, the m-Paley graph is (q-1)d regular. This item ships from multiple locations. Your book may arrive from Roseburg, OR, La Vergne, TN. Paperback.

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