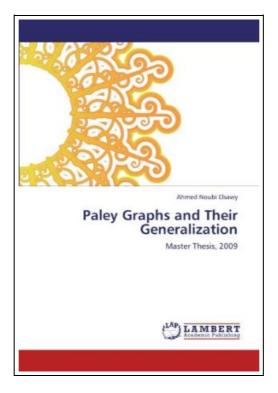
Paley Graphs and Their Generalization



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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, self-complementary, 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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