

<<q-Clan Geometries in>>

图书基本信息

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内容概要

A q -clan with q a power of 2 is equivalent to a certain generalized quadrangle with a family of subquadrangles each associated with an oval in the Desarguesian plane of order 2. It is also equivalent to a flock of a quadratic cone, and hence to a line-spread of 3-dimensional projective space and thus to a translation plane, and more. These geometric objects are tied together by the so-called Fundamental Theorem of q -Clan Geometry. The book gives a complete proof of this theorem, followed by a detailed study of the known examples. The collineation groups of the associated generalized quadrangles and the stabilizers of their associated ovals are worked out completely.

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书籍目录

Preliminaries Introduction Finite Generalized Quadrangles Prolegomena 1 q-Clans and Their Geometries 1.1 Anisotropism 1.2 q-Clans 1.3 Flocks of a Quadratic Cone 1.4 4-Gonal Families from q-Clans 1.5 Ovals in Ra 1.6 Herd Cover and Herd of Ovals 1.7 Herds of Ovals from q-Clans 1.8 Generalized Quadrangles from q-Clans 1.9 Spreads of $\text{PG}(3,q)$ Associated with q-Clans 2 The Fundamental Theorem 2.1 Grids and Affine Planes 2.2 The Fundamental Theorem 2.3 $\text{Aut}(G)$ 2.4 Extension to $1/2$ -Normalized q-Clans 2.5 A Characterization of the q-Clan Kernel 2.6 Very Important Concept 2.7 The q-clan Cis, sF 2.8 The Induced Oval Stabilizers 2.9 Action of H on Generators of Cone $K_3 \text{ Aut}(GQ(C))$ 3.1 General Remarks 3.2 An Involution of $GQ(C)$ 3.3 The Automorphism Group of the Herd Cover 3.4 The Magic Action of O'Keefe and Penttila 3.5 The Automorphism Group of the Herd 3.6 The Groups G_o, G_θ and G_0 3.7 The Square-Bracket Function 3.8 A Cyclic Linear Collineation 3.9 Some Involutions 3.10 Some Semi-linear Collineations 4 The Cyclic q-Clans 4.1 The Unified Construction of [COP03] 4.2 The Known Cyclic q-Clans 4.3 q-Clan Functions Via the Square Bracket 4.4 The Flip is a Collineation 4.5 The Main Isomorphism Theorem 4.6 The Unified Construction Gives Cyclic q-Clans 4.7 Some Semi-linear Collineations 4.8 An Oval Stabilizer 5 Applications to the Known Cyclic q-Clans 5.1 The Classical Examples: $q=2^e$ for $e \geq 1$ 5.2 The FTWKB Examples: $q=2^e$ with e Odd 5.3 The Subiaco Examples: $q=2^e, e \geq 4$ 5.4 The Adelaide Examples: $q=2^e$ with e Even 6 The Subiaco Oval Stabilizers 6.1 Algebraic Plane Curves 6.2 The Action of G_o on the Ra 6.3 The case $e \equiv 2 \pmod{4}$ 6.4 The Case $e \equiv 10 \pmod{20}$ 6.5 Subiaco Hyperovals: The Various Cases 6.6 $O^+(1,1)$ as an Algebraic Curve 6.7 The Case $e \equiv 0 \pmod{4}$ 6.8 The Case e Odd 6.9 The case $e \equiv 2 \pmod{4}$ 6.10 Summary of Subiaco Oval Stabilizers 7 The Adelaide Oval Stabilizers 7.1 The Adelaide Oval 7.2 A Polynomial Equation for the Adelaide Oval 7.3 Irreducibility of the Curve 7.4 The Complete Oval Stabilizer 8 The Payne q-Clans 9 Other Good Stuff Bibliography Index

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