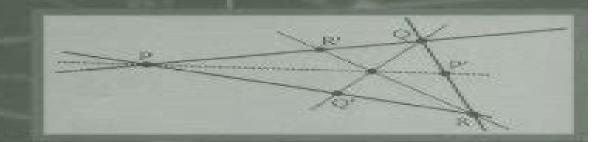
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from foundations to applications

# Projective Geometry



Albrecht Beutelspacher & Ute Rosenbaum

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# **Projective Geometry From Foundations To Applications**

**Annelies Wilder-Smith** 

## **Projective Geometry From Foundations To Applications:**

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Circles, Spheres and Spherical Geometry Hiroshi Maehara, Horst Martini, 2024-08-09 This textbook focuses on the geometry of circles spheres and spherical geometry Various classic themes are used as introductory and motivating topics. The book begins very simply for the reader in the first chapter discussing the notions of inversion and stereographic projection. Here various classical topics and theorems such as Steiner cycles inversion Soddy's hexlet stereographic projection and Poncelet's porism are discussed. The book then delves into Bend formulas and the relation of radii of circles focusing on Steiner circles mutually tangent four circles in the plane and other related notions. Next some fundamental concepts of graph theory are explained. The book then proceeds to explore orthogonal cycle representation of quadrangulations giving detailed discussions of the Brightwell Scheinerman theorem an extension of the Koebe Andreev. Thurston theorem. Newton's 13 balls problem Casey's theorem an extension of Ptolemy's theorem and its generalizations. The remainder of the book is devoted to spherical geometry including a chapter focusing on geometric probability on the sphere. The book also contains new results of the authors and insightful notes on the existing literature bringing the reader closer to the research front Each chapter concludes with related exercises of varying levels of difficulty. Solutions to selected exercises are provided. This book is suitable to be used as textbook for a geometry course or alternatively as basis for a seminar for both advanced undergraduate and graduate students alike.

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