



A Participatory Approach to Modern Geometry

Jay Kappraff

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This book aims to make the subject of geometry and its applications easy and comfortable to understand by students majoring in mathematics or the liberal arts, architecture and design. It can be used to teach students at different levels of computational ability and there is also sufficient novel material to interest students at a higher cognitive level. While the book goes deeply into the applications of geometry, it contains much introductory material which up to now may not have been known to the student. The constructive approach using compass and straightedge engages students, not just on an intellectual level, but also at a tactile level. This may be the only rigorous book offering geometry that attempts to engage students outside of the mathematics discipline. **Contents:**

- Triangle and Square Grids
- The Pythagorean Theorem
- Scan Converting of a Line Segment
- Compass and Straightedge Constructions (Part 1: The World Within a Triangle)
- Congruent Triangles
- Introduction to Trigonometry
- The Art of Proof
- Angle
- Voronoi Domains
- Parallel Lines
- Bracing a Framework
- Similarity
- Compass and Straightedge Constructions (Part 2: Doing Algebra with Geometry)
- Area
- Vectors and Geoboards
- Logarithmic Spirals
- The Golden and Silver Means
- Isometries
- Isometries and Mirrors
- Kaleidoscopes and Symmetry
- Groups and Kaleidoscope Symmetry
- Frieze Patterns
- An Introduction to Fractals
- Isometries and Matrices

Readership: Undergraduate students of any discipline interested in improving their visual understanding in geometry.

Key Features:

Projective geometry is introduced at a constructive level. The student is engaged in carrying out 13 fundamental constructions of projective geometry. By focusing on projective geometry, the properties of

Euclidean geometry become more understandable — including the nature of infinity and the meaning of parallel lines

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