Geometry and Its Applications. Edition No. 2

Description: Meyer's Geometry and Its Applications, Second Edition, combines traditional geometry with current ideas to present a modern approach that is grounded in real-world applications. It balances the deductive approach with discovery learning, and introduces axiomatic, Euclidean geometry, non-Euclidean geometry, and transformational geometry. The text integrates applications and examples throughout and includes historical notes in many chapters.

The Second Edition of Geometry and Its Applications is a significant text for any college or university that focuses on geometry's usefulness in other disciplines. It is especially appropriate for engineering and science majors, as well as future mathematics teachers.

- Realistic applications integrated throughout the text, including (but not limited to): - Symmetries of artistic patterns- Physics- Robotics- Computer vision- Computer graphics- Stability of architectural structures- Molecular biology- Medicine- Pattern recognition- Historical notes included in many chapters

Contents:
1. The Axiomatic Method in Geometry
2. The Euclidean Heritage
3. Non-Euclidean Geometry
4. Transformation Geometry I: Isometries and Symmetries
5. Vectors in Geometry
6. Transformation Geometry II: Isometries and Matrices
7. Transformation Geometry III: Similarity, Inversion and Projection
8. Graphs, Maps and Polyhedra

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