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
- Instructor's Manual with solutions available for all adopters of the text

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
Answers to Odd-Numbered Exercises

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