



Experiments in Topology Dover Books on Mathematics

By Stephen Barr

Dover Publications. Paperback. Book Condition: New. Paperback. 238 pages. Dimensions: 7.9in. x 5.3in. x 0.6in. A mathematician named Klein thought the Möbius band was divine. Said he: If you glue the edges of two, you'll get a weird bottle like mine. Stephen Barr. In this lively book, the classic in its field, a master of recreational topology invites readers to venture into such tantalizing topological realms as continuity and connectedness via the Klein bottle and the Möbius strip. Beginning with a definition of topology and a discussion of Euler's theorem, Mr. Barr brings wit and clarity to these topics: New Surfaces (Orientability, Dimension, The Klein Bottle, etc.) The Shortest Möbius Strip The Conical Möbius Strip The Klein Bottle The Projective Plane (Symmetry) Map Coloring Networks (Koenigsberg Bridges, Betti Numbers, Knots) The Trial of the Punctured Torus Continuity and Discreteness (Next Number, Continuity, Neighborhoods, Limit Points) Sets (Valid or Merely True Venn Diagrams, Open and Closed Sets, Transformations, Mapping, Homotopy) With this book and a square sheet of paper, the reader can make paper Klein bottles, step by step; then, by intersecting or cutting the bottle, make Möbius strips. Conical Möbius strips, projective planes, the principle of map coloring, the classic problem of the Koenigsberg bridges, and many more aspects of topology are carefully...



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