Hyperbolic Geometry (Springer Undergraduate Mathematics Series)

By James W. Anderson

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Thoroughly updated, featuring new material on important topics such as hyperbolic geometry in higher dimensions and generalizations of hyperbolicity

Includes full solutions for all exercises

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Editorial Review

From the Back Cover

The geometry of the hyperbolic plane has been an active and fascinating field of mathematical inquiry for most of the past two centuries. This book provides a self-contained introduction to the subject, suitable for third or fourth year undergraduates. The basic approach taken is to define hyperbolic lines and develop a natural group of transformations preserving hyperbolic lines, and then study hyperbolic geometry as those quantities invariant under this group of transformations.

Topics covered include the upper half-plane model of the hyperbolic plane, Möbius transformations, the general Möbius group, and their subgroups preserving the upper half-plane, hyperbolic arc-length and distance as quantities invariant under these subgroups, the Poincaré disc model, convex subsets of the hyperbolic plane, hyperbolic area, the Gauss-Bonnet formula and its applications.

This updated second edition also features:

an expanded discussion of planar models of the hyperbolic plane arising from complex analysis;

the hyperboloid model of the hyperbolic plane;

brief discussion of generalizations to higher dimensions;

many new exercises.

The style and level of the book, which assumes few mathematical prerequisites, make it an ideal introduction to this subject and provides the reader with a firm grasp of the concepts and techniques of this beautiful part of the mathematical landscape.

Users Review

From reader reviews:

Clara Lee:

As people who live in typically the modest era should be revise about what going on or details even knowledge to make them keep up with the era that is always change and move forward. Some of you maybe will probably update themselves by reading through books. It is a good choice in your case but the problems coming to a person is you don't know what kind you should start with. This Hyperbolic Geometry (Springer Undergraduate Mathematics Series) is our recommendation so you keep up with the world. Why, since this book serves what you want and want in this era.

Daniel Reynolds:

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