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Autore	Krugman, Paul R. <1953- >
Titolo	Development, geography, and economic theory / Paul Krugman
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Autore	Ungar Abraham A.
Titolo	Analytic hyperbolic geometry in N dimensions : an introduction / / Abraham A. Ungar, Mathematics Department, North Dakota State University, Fargo, North Dakota, USA
Pubbl/distr/stampa	Boca Raton : , : Taylor & Francis, , [2015] ©2015
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Descrizione fisica	1 online resource (616 p.)
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Disciplina	516.9
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Introduction; Part I: Einstein Gyrogroups and Gyrovector Spaces; 2. Einstein Gyrogroups; 3. Einstein Gyrovector Spaces ; 4. Relativistic Mass Meets Hyperbolic Geometry; Part II: Mathematical Tools for Hyperbolic Geometry; 5. Barycentric and Gyrobarycentric Coordinates; 6. Gyroparallelograms and Gyroparallelotopes; 7. Gyrotrigonometry; Part III: Hyperbolic Triangles and Circles; 8. Gyrotriangles and Gyrocircles; 9. Gyrocircle Theorems; Part IV: Hyperbolic Simplices, Hyperplanes and Hyperspheres in N Dimensions
10. Gyrosimplex Gyrogeometry11. Gyrotetrahedron Gyrogeometry; Part V: Hyperbolic Ellipses and Hyperbolas; 12. Gyroellipses and Gyrohyperbolas ; Part VI: Thomas Precession; 13. Thomas Precession; Notations and Special Symbols; Bibliography

Sommario/riassunto

The concept of the Euclidean simplex is important in the study of n-dimensional Euclidean geometry. This book introduces for the first time the concept of hyperbolic simplex as an important concept in n-dimensional hyperbolic geometry. Following the emergence of his gyroalgebra in 1988, the author crafted gyrolanguage, the algebraic language that sheds natural light on hyperbolic geometry and special relativity. Several authors have successfully employed the author's gyroalgebra in their exploration for novel results. Francoise Chatelin noted in her book, and elsewhere, that the computation la