

1. Record Nr.	UNINA9910784043903321
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Titolo	Analytic hyperbolic geometry [[electronic resource]] : mathematical foundations and applications // Abraham A. Ungar
Pubbl/distr/stampa	New Jersey, : World Scientific, c2005
ISBN	1-281-89922-4 9786611899226 981-270-327-6
Descrizione fisica	1 online resource (482 p.)
Disciplina	516.9
Soggetti	Geometry, Hyperbolic Vector algebra
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references (p. 445-456) and index.
Nota di contenuto	Preface; Acknowledgements; Contents; 1. Introduction; 2. Gyrogroups; 3. Gyrocommutative Gyrogroups; 4. Gyrogroup Extension; 5. Gyrovectors and Cogrovectors; 6. Gyrovector Spaces; 7. Rudiments of Differential Geometry; 8. Gyrotrigonometry; 9. Bloch Gyrovector of Quantum Computation; 10. Special Theory of Relativity: The Analytic Hyperbolic Geometric Viewpoint; Notation And Special Symbols; Bibliography; Index
Sommario/riassunto	This is the first book on analytic hyperbolic geometry, fully analogous to analytic Euclidean geometry. Analytic hyperbolic geometry regulates relativistic mechanics just as analytic Euclidean geometry regulates classical mechanics. The book presents a novel gyrovector space approach to analytic hyperbolic geometry, fully analogous to the well-known vector space approach to Euclidean geometry. A gyrovector is a hyperbolic vector. Gyrovectors are equivalence classes of directed gyrosegments that add according to the gyroparallelogram law just as vectors are equivalence classes of directed segme