1. Record Nr. UNINA9910788555903321

Autore	Ungar Abraham Albert
Titolo	Barycentric calculus in Euclidian and hyperbolic geometry [[electronic resource]] : a comparative introduction / / Abraham Albert Ungar
Pubbl/distr/stampa	Hackensack, N.J., : World Scientific, 2010
ISBN	1-283-14453-0 9786613144539 981-4304-94-8
Descrizione fisica	1 online resource (300 p.)
Disciplina	516.2 516.22
Soggetti	Geometry, Analytic Calculus Geometry, Plane Geometry, Hyperbolic
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 and index.
Nota di contenuto	Contents; Preface; 1. Euclidean Barycentric Coordinates and the Classic Triangle Centers; 2. Gyrovector Spaces and Cartesian Models of Hyperbolic Geometry; 3. The Interplay of Einstein Addition and Vector Addition; 4. Hyperbolic Barycentric Coordinates and Hyperbolic Triangle Centers; 5. Hyperbolic Incircles and Excircles; 6. Hyperbolic Tetrahedra; 7. Comparative Patterns; Notation And Special Symbols; Bibliography; Index
Sommario/riassunto	The word barycentric is derived from the Greek word barys (heavy), and refers to center of gravity. Barycentric calculus is a method of treating geometry by considering a point as the center of gravity of certain other points to which weights are ascribed. Hence, in particular, barycentric calculus provides excellent insight into triangle centers. This unique book on barycentric calculus in Euclidean and hyperbolic geometry provides an introduction to the fascinating and beautiful subject of novel triangle centers in hyperbolic geometry along with analogies they share with familiar triangle ce