

This monograph presents the basic concepts of hyperbolic Lobachevsky geometry and their possible applications to modern nonlinear applied problems in mathematics and physics, summarizing the findings of roughly the last hundred years. The central sections cover the classical building blocks of hyperbolic Lobachevsky geometry, pseudo spherical surfaces theory, net geometrical investigative techniques of nonlinear differential equations in partial derivatives, and their applications to the analysis of the physical models. As the sine-Gordon equation appears to have profound geometrical roots and numerous applications to modern nonlinear problems, it is treated as a universal object of investigation, connecting many of the problems discussed. The aim of this book is to form a general geometrical view on the different problems of modern mathematics, physics and natural science in general in the context of non-Euclidean hyperbolic geometry.

Buy Lobachevsky Geometry and Modern Nonlinear Problems ed. by Andrey Popov, Andrei Iacob (ISBN:) from Amazon's Book Store. thepepesplace.com: Lobachevsky Geometry and Modern Nonlinear Problems (): Andrey Popov, Andrei Iacob: Books. Editorial Reviews. Review. "The main aim of this book is to look at the potential of the geometry. This monograph presents the basic concepts of hyperbolic Lobachevsky geometry and their possible applications to modern nonlinear applied.

2 The problem of realizing the Lobachevsky geometry in Euclidean space. Lobachevsky planimetry as the geometry of a two-dimensional. Riemannian. Lobachevsky Geometry and Modern Nonlinear Problems Bibliography.- Index. Tags: Hyperbolic Geometry · Nonlinear Analysis · Partial Differential Equations. The aim of this book is to reveal the potential of Lobachevsky's geometry in the interest in contemporary science, first and foremost in nonlinear problems of. Francis Villatoro · @emulenews. Informatico, fisico, doctor en matematicas y divulgador científico; en mi blog practico el arte de hacer facil lo.

Andrey Popov is the author of Lobachevsky Geometry and Modern Nonlinear Problems (avg rating, 0 ratings, 0 reviews, published) and Building a Pe .

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