

Geometric Theory Of Generalized Functions With Applications To General Relativity Mathematics And Its Applications

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Geometric Theory Of Generalized Functions

Geometric Theory of Generalized Functions with Applications to General Relativity (Mathematics and Its Applications) 2001st Edition. by M. Grosser (Author), M. Kunzinger (Author), Michael Oberguggenberger (Author), R. Steinbauer (Author) & 1 more. ISBN-13: 978-1402001451.

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Geometric Theory of Generalized Functions with Applications to General Relativity. Over the past few years a certain shift of focus within the theory of algebras of generalized functions (in the sense of J. F. Colombeau) has taken place. Originating in infinite dimensional analysis and initially applied mainly to problems in nonlinear partial differential equations involving singularities, the theory has undergone a change both in internal structure and scope of applicability, due to a ...

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Geometric Theory of Generalized Functions : With ...

The goal of the present chapter is to study some geometric properties (like univalence, starlikeness, convexity, close-to-convexity) of generalized Bessel functions of the first kind.

(PDF) Geometric Properties of Generalized Bessel Functions

Geometric function theory considers notions of higher generalized functions on higher generalized spaces (such as on

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groupoids, on orbifolds and more generally on infinity-stacks) such that all suitably generalized linear maps between the monoidal ∞ -structures of functions on two spaces arise from a higher analog of plain matrix multiplication, namely from a pull-tensor-push operation in the given ∞ -context.

geometric function theory in nLab

In mathematics, generalized functions are objects extending the notion of functions. There is more than one recognized theory, for example the theory of distributions. Generalized functions are especially useful in making discontinuous functions more like smooth functions, and describing discrete physical phenomena such as point charges. They are applied extensively, especially in physics and engineering. A common feature of some of the approaches is that they build on operator aspects of everyd

Generalized function - Wikipedia

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The theory of generalized functions initiated by J. F. Colombeau, see [4] and [5], in connection with the problem of multiplication of Schwartz distributions [20], has been developed and applied ...

Steinbauer R : Geometric Theory of Generalized Functions ...

Geometric Theory of Generalized Functions with Applications to General Relativity. [Michael Grosser; M Kunzinger; Michael Oberguggenberger; Roland Steinbauer] -- This work provides the first comprehensive introduction to the nonlinear theory of generalized functions (in the sense of Colombeau's construction) on differentiable manifolds.

Geometric Theory of Generalized Functions with ...

The first systematic theory of generalized functions (also known as distributions) was created in the early 1950s, although some

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aspects were developed much earlier, most notably in the definition of the Green's function in mathematics and in the work of Paul Dirac on quantum electrodynamics in physics. The six-volume collection, *Generalized Functions*, written by I. M. Gelfand and co-authors and published in Russian between 1958 and 1966, gives an introduction to generalized functions and ...

Generalized Functions, Volume 5: Integral Geometry and

...

Geometric function theory is the study of geometric properties of analytic functions. A fundamental result in the theory is the Riemann mapping theorem. Topics in geometric function theory. The following are some of the most important topics in geometric function ...

Geometric function theory - Wikipedia

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Applications to General Relativity “ Over the past few years a certain shift of focus within the theory of algebras of generalized functions (in the sense of J. F. Colombeau) has taken place.

Geometric Theory of Generalized Functions with ...

It can be generalized to smooth functions between Banach spaces, analytic functions between real or complex domains, to p-adic analysis, and to other areas of analysis. Let $C^\infty(\mathbb{R}^n, \mathbb{R}^m)$ be the vector space of smooth functions $f: \mathbb{R}^n \rightarrow \mathbb{R}^m$.

Jet (mathematics) - Wikipedia

Description Generalized Functions, Volume 5: Integral Geometry and Representation Theory is devoted to the theory of representations, focusing on the group of two-dimensional

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complex matrices of determinant one.

Integral Geometry and Representation Theory | ScienceDirect

The main tools we use are the algebraic results obtained by Aragona and Juriaans and the theory of differential calculus on generalized manifolds developed by Aragona and co-workers. The main achievement of the differential calculus is that all classical objects, such as distributions, become C^∞ -functions. Our purpose is to build an independent and intrinsic theory for Colombeau generalized functions and place them in a wider context.

Algebraic and Geometric Theory of the Topological Ring of ...

A generalized geometric distribution is introduced and briefly studied. First it is noted that it is a proper probability distribution.

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Then its probability generating function, mean and variance are derived. The probability distribution of the sum Y , of r independent random variables, distributed as generalized geometric, is derived.

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