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Geometric objects, theory of - Encyclopedia of Mathematics

Summary: Offers the comprehensive introduction to the nonlinear theory of generalized functions (in the sense of Colombeau's construction) on differentiable manifolds. This book places emphasis on a diffeomorphism invariant geometric approach to embedding the space of Schwartz distributions into algebras of generalized functions.

Mathematics and Its Applications: Geometric Theory of ... Generalized Functions, Volume 5: Integral Geometry and Representation Theory is devoted to the theory of representations, focusing on the group of two-dimensional complex matrices of determinant one.

Integral Geometry and Representation Theory | ScienceDirect

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

Geometric Theory of Generalized Functions with ... Geometric Theory of Generalized Functions with Applications to General Relativity. This main purpose of the book is accompanied by a number of sub ordinate goals which we were aiming at when arranging the material included here. First, despite the fact that by now several excellent mono graphs on Colombeau algebras are available,...

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Generalizations of the derivative - Wikipedia

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This work provides the first comprehensive introduction to the nonlinear theory of generalized functions (in the sense of Colombeau's construction) on differentiable manifolds. Particular emphasis is laid on a diffeomorphism invariant geometric approach to embedding the space of Schwartz distributions into algebras of generalized functions.

Geometric function theory - Wikipedia

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.

geometric function theory in nLab

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

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Generalized Functions, Volume 5: Integral Geometry and

...

Geometric objects, theory of. A system of the form (1) is a system of differential equations of invariance of a geometric object with relative components and group if and only if the coefficients are functions of the variables alone and the given system (1) is completely integrable (the fundamental theorem in the theory of geometric objects).

Geometric theory of generalized functions with ... Algebraic and Geometric Theory of the Topological Ring of Colombeau Generalized Functions Article in Proceedings of the Edinburgh Mathematical Society 51(03):545 - 564 · October 2008 with 15 Reads

Geometric Theory Of Generalized Functions

The present book is intended to provide an in-depth presentation of these developments comprising its structural aspects within the theory of generalized functions as well as a (selective but, as we hope, representative) set of applications.

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

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In mathematics, generalized functions, or distributions, are objects extending the notion of functions. There is more than one recognized theory. 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 everyday, numerical function

Geometric Theory of Generalized Functions with ...
Geometric function theory is the study of geometric properties of analytic functions. A fundamental result in the theory is the Riemann mapping theorem.

Generalized function - Wikipedia

In real, complex, and functional analysis, derivatives are generalized to functions of several real or complex variables and functions between topological vector spaces. An important case is the variational derivative in the calculus of variations. Repeated application of differentiation leads to derivatives of higher order and differential operators.

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Geometric Theory of Generalized Functions with Applications to General Relativity Series: Mathematics and Its Applications, Vol. 537 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

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distribution theory and algebras of generalized functions in mathematical relativity. Applications to problems of a more geometric nature, in particular those in general relativity are in fact intimately linked with the inception of diffeomorphism invariant Colombeau algebras themselves in

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