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Differential Geometry, Mathematical Physics, PDE
Differential geometry is a mathematical discipline that uses the techniques of differential calculus, integral calculus, linear algebra and multilinear algebra to study problems in

geometry. The theory of plane and space curves and surfaces in the three-dimensional Euclidean space formed the basis for development of differential geometry during the 18th century and the 19th century. Since the late 19th century, differential geometry has grown into a field concerned more generally with the geomet

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Differential geometry - Wikipedia

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Geometry and Mathematical Physics | Mathematics Area - SISSA

Publishes the latest research in differential geometry and related areas of differential equations, mathematical physics, algebraic geometry, and geometric topology. Publication. Publishing since 1967. 9 issues per year, in January, February, March, May, June, July, September, October and November.

Journal of Differential Geometry

Differential Geometry and Mathematical Physics: Part I. Manifolds, Lie Groups and Hamiltonian Systems (Theoretical and Mathematical Physics)

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Differential Geometry and Mathematical Physics: Part II ...

Di erential Geometry in Physics Gabriel Lugo Department of Mathematical Sciences and Statistics University of North Carolina at Wilmington c 1992, 1998, 2006, 2020. i This document was reproduced by the University of North Carolina at Wilmington from a camera ready copy supplied by the authors.

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The book is devoted to the study of the geometrical and topological structure of gauge theories. It consists of the following three building blocks:- Geometry and topology of fibre bundles,- Clifford algebras, spin structures and Dirac operators,- Gauge theory.Written...

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It covers the concepts and techniques needed for topics such as group theory, Lie algebras, topology, Hilbert space and differential geometry. Important theories of physics such as classical and quantum mechanics, thermodynamics, and special and general relativity are also developed in detail, and presented in the appropriate mathematical language.

A Course in Modern Mathematical Physics by Peter Szekeres

Traditionally mathematical physics has been quite closely associated to ideas in calculus, particularly those of differential equations. In recent years however, in part due to the rise of superstring theory, there has been a great enlargement of branches of mathematics which can now be categorized as part of mathematical physics.

Mathematical Physics | Department of Mathematics

Robert C. Hermann (April 28, 1931 – February 10, 2020) was an American mathematician and mathematical physicist. In the 1960s Hermann worked on elementary particle physics and quantum field theory, and published books which revealed the interconnections between vector bundles on Riemannian manifolds and gauge theory in physics, before these interconnections became "common knowledge" among ...