

Differential geometry of smooth vector bundles can be formulated in algebraic terms of modules over rings of smooth functions. Generalizing this construction, one can define the differential calculus, differential operators and connections on modules over arbitrary commutative, graded commutative and non-commutative rings. For instance, this is the case of quantum theory, supergeometry and non-commutative geometry, respectively. The book aims to summarize the relevant material on this subject. Some basic applications to quantum theory are considered. The book is based on the graduate and post graduate courses of lectures given at the Department of Theoretical Physics of Moscow State University (Russia) and the Department of Mathematics and Physics of University of Camerino (Italy). It addresses to a wide audience of mathematicians, mathematical physicists and theoreticians.

The Social Construction of Europe, Antisemitismus: Prasenz und Tradition eines Ressentiments (German Edition), Apocalypse Law 4, Life Is Like A Golfcourse, True Tales from the Edgar Cayce Archives: Lives Touched and Lessons Learned from the Sleeping Prophet, Halloween Night - Our Neighbor is a Witch,

G. Sardanashvily, "Lectures on Differential Geometry of Modules and Rings. Application to Quantum Theory" (Lambert Academic Publishing, 2008). This book covers the differential calculus over Grassmann algebras and the supergeometry and field theory on this. The lecture addresses the differential calculus over N -graded commutative rings, and the apparatus of connections on modules and Application to Quantum Theory.

Geometry of classical mechanics and field theory is mainly differential geometry of finite-dimensional spaces. This application has stimulated the study of symplectic connections [60]. Lectures on Differential Geometry of Modules and Rings.

Contemporary quantum theory meets an explosion of different types of quantization. In a general setting, differential geometry of smooth fiber bundles gives .. (ii) Given a (connected) compact topological space X and the ring $C(X)$ on X to the modules of sections of some smooth vector bundle over X [94], and this is.

order to expose the idea of the generalization of differential geometry. It is known that every projective module over a ring with a unique maximal ideal is free. Structured spaces and their application to relativistic physics. J. Math. Phys. Lectures on Differential Geometry of Modules and Rings. Application to Quantum Theory. Lectures on Differential Geometry of Modules and Rings. Application to Quantum Theory, Lambert Academic, Saarbrücken, Germany, Supergauge theories in graded manifolds, In: Differential Geometric Methods in Mathematical Physics, Lect. Notes in Math. 1157, Springer-Verlag, Berlin, 1995. Lectures on Differential Geometry of Modules and Rings. Application to Quantum Theory (Lambert Publishing, Saarbrücken,). The courses described in this document apply only for the academic year .. and modules, a theory that is an essential ingredient in algebraic geometry, H. Matsumura, Commutative ring theory, Cambridge Studies in Advanced Mathematics 8, Cambridge Lie algebras arise as tangent spaces to certain differential manifolds called Lie groups. Lectures on Differential Geometry of Modules and Rings. Application to Quantum Theory (Lambert Publishing, Saarbrücken,). Lectures on supergeometry. The term ring theory is sometimes used to indicate the specific study of rings as modules over a (suitably topologized in the infinite case) group ring $C(X) = C(X) [G]$. The lectures by E. Witten in Quantum fields and strings: a course for geometry, and deformation theory, which all have applications to.

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