

图书基本信息

书名：<<非交换微分几何及其在物理学中的应用导论>>

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## 内容概要

本书主要内容包括：Differential forms I、Differential forms II、Tensor products、Metrics、Yang-Mills connections、Linear connections、Curvature等。

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## 章节摘录

插图：If  $V$  is a smooth manifold then the algebra of smooth functions  $C(V)$  defined on it is of course a commutative algebra and in this case also there is an intrinsic characterization of the set of all such algebras, an additional structure which can be added to an arbitrary commutative algebra  $A$  which would insure that  $A = C(V)$  for some  $V$ . The manifold  $V$  can always be considered as embedded in a euclidean space  $R^n$  of sufficiently high dimension. The coordinates of the embedding space are generators of an algebra of polynomials which is dense in the algebra  $C(R^n)$  of smooth functions and the equations which define the manifold are relations in  $C(R^n)$ . The quotient of  $C(R^n)$  by the ideal generated by the relations is equal to the algebra of smooth functions  $C(V)$  on  $V$ .

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