

This note, that [was found here](#), as a part of [a collection](#) is written (completely with human hands) by [Rupadarshi Ray](#), was created on July 1, 2023 6:42:31 PM, was last modified on May 17, 2026 7:36:54 PM, and was exported on September 7, 2026 3:31:10 PM.

Vector bundles over a contractible manifold

A vector bundle over a *contractible manifold* M is trivial, that is,

$$VecBun_kTop?_{\cong}(M) = \{\mathbb{R}^k \times M\}$$

Current note has 0 direct children and 0 total descendants.

- [structures based on sets](#)
 - [manifolds](#)
 - [smooth \$\mathbb{R}\$ -manifold](#)
 - [Vector bundle on smooth manifolds](#)
 - [Vector bundles over a contractible manifold](#)

And it has 5 siblings.

- [structures based on sets](#)
 - [manifolds](#)
 - [smooth \$\mathbb{R}\$ -manifold](#)
 - [Vector bundle on smooth manifolds](#)
 - [Connection on a smooth vector bundle on a smooth manifold](#)
 - [Inducing vector bundles](#)
 - [Vector bundles over a contractible manifold](#)
 - [Pullback of a smooth vector bundle on a smooth manifold](#)
 - [Tangent bundle of a smooth vector bundle](#)