

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 6:46:51 PM, was last modified on May 17, 2026 7:36:54 PM, and was exported on September 7, 2026 3:31:10 PM.

Inducing vector bundles

Definition. Inducing vector bundles/pullback of vector bundles

Let $E \overset{\pi}{\rightarrow} M$ be a vector bundle and $f : N \rightarrow M$ be continuous. Then f induces a vector bundle $f^{-1}E$ on N called pullback of E by F .

Current note has 1 direct children and 1 total descendants.

- [structures based on sets](#)
 - [manifolds](#)
 - [smooth \$\mathbb{R}\$ -manifold](#)
 - [Vector bundle on smooth manifolds](#)
 - [Inducing vector bundles](#)
 - [Homotopic maps induce isomorphic vector bundles](#)

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](#)