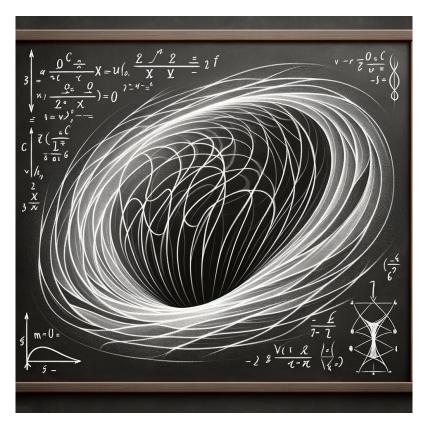
Lecture Notes For: Manifolds, Vector Fields, and Differential Forms

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Introduction:

This lecture note about my studies on the Manifolds and their applications in different branched of mathematics and physics. The following is a list of books I have used for this lecture note.

• "Manifolds, Vector Fields, and Differential Forms" by Gal Gross and Eckhard Meinrenken.



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0.1 Sets and Functions