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makes R^n into a Riemannian manifold. Then, every submanifold, M , of R^n inherits a metric by restricting the Euclidean metric to M . For example, the sphere, S^n , inherits a metric that makes S^n into a Riemannian manifold. It is a good exercise to find the local expression of this metric for S^2 in polar coordinates.

Chapter 6 Riemannian Manifolds and Connections

Manifold Riemannian Manifold Russian Translation Ahlerian Manifold Torsion Tensor These keywords were added by machine and not by the authors. This process is experimental and the keywords may be updated as the learning algorithm improves.

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Affine geometry - Wikipedia

of manifolds are the curves and the surfaces and these were quite well understood. B. Riemann was the first to note that the low dimensional ideas of his time were particular aspects of a higher dimensional world. The first chapter of this book introduces the reader to the concept of smooth manifold

Lectures on the Geometry of Manifolds

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