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the definition of a manifold and first examples *May 11 2024*

the definition of a manifold and first examples in brief a real n dimensional manifold is a topological space m for which every point x 2 m has a neighbourhood homeomorphic to euclidean space rn definition 1 coordinate system chart parameterization let m be a topological space and u m an open set let v

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a manifold is a certain type of subset of rn a precise definition will follow in chapter 6 but one important consequence of the definition is that at each of its points a manifold has a well defined tangent space which is a linear subspace of rn this fact enables us to apply the methods of calculus and linear algebra to the study of

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1 manifolds definitions and examples loosely manifolds are topological spaces that look locally like euclidean space a little more precisely it is a space together with a way of identifying it locally with a euclidean space which is compatible on overlaps to formalize this we need the following notions

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manifolds the higher dimensional analogs of smooth curves and surfaces are fundamental objects in modern mathematics combining aspects of algebra topology and analysis manifolds have also been applied to classical mechanics general relativity and quantum field theory

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the basic example of a manifold is euclidean space and many of its properties carry over to manifolds in addition any smooth boundary of a subset of euclidean space like the circle or the sphere is a manifold

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a manifold is a topological space that locally resembles euclidean space this obviously doesn t mean much unless you ve studied topology an intuitive but not exactly correct way to think about it is taking a geometric object from rk and trying to fit it into rn n k

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theorem 1 if v is a c1 vector eld on x then there exists a neighborhood u of in rn and a c1 vector eld w on u with the properties w is tangent to x wjx v given a vector eld v on x there are often some particularly nice choices for this extended vector eld w

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here i begin to introduce the concept of a manifold building on our intuition gained from studying topological spaces

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a geometric object which locally has the structure topological smooth homological etc of mathbf r n or some other vector space this fundamental idea in mathematics refines and generalizes to an arbitrary dimension the notions of a line and a surface

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a manifold is a multidimensional geometric object that can be considered as a space which is locally similar to the euclidean space since differentiation is a locally defined property then the differentiation can be defined on a manifold in a similar way as it is defined on the euclidean space

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in mathematics a manifold is a topological space that locally resembles euclidean space near each point more precisely an dimensional manifold or manifold for short is a topological space with the property that each point has a neighborhood that is homeomorphic to an open subset of dimensional euclidean space

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the easiest way to picture smooth manifolds is as generalizations of smooth curves 1 dimensional and surfaces 2 dimensional in r 3 to higher dimen sions and in r n instead of r 3

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bernhard riemann was the first to do extensive work generalizing the idea of a surface to higher dimensions the name manifold comes from riemann s original german term mannigfaltigkeit which william kingdon clifford translated as manifoldness

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manifold as a subset of a euclidean space this has the disadvantage of making quotient manifolds such as projective spaces difficult to understand my solution is to make the first four sections of the book independent of point set topology and to place the necessary point set topology in an appendix while reading the first

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this book is designed as a first year graduate text on manifold theory for stu dents who already have a solid acquaintance with undergraduate linear algebra real analysis and topology i have tried to focus on the portions of manifold theory that will be needed by most people who go on to use manifolds in mathematical or sci entific research

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