Differential Geometry

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<td>Differential Geometry</td>
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Objectives of the course

To study the basic principles of differential geometry which relate curves and surfaces in space. To study parametric representations of curves and surfaces.

To recognize curves on surfaces and various types of curvatures and geodesics.

Course description

Introduction to Manifolds:
Functions of Several Variables and Mappings:
Differentiable Manifolds and Submanifolds:
Vector Fields on a Manifold:
Tensors and Tensor Fields on a Manifold:

Integration on Manifolds:
Differentiation on Riemannian Manifolds:
Curvature:

Main text book


Subsidiary Books

