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## **DIFFERENTIAL GEOMETRY - Eötvös Loránd University**

Differential geometry of curves is the branch of geometry that deals with smooth curves in the plane and the Euclidean space by methods of differential and integral calculus. Many specific curves have been thoroughly investigated using the synthetic approach. Differential geometry takes another path: curves are represented in a parametrized form, and their geometric properties and various quantities associated with them, such as the curvature and the arc length, are expressed via derivatives and

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ential geometry. It is based on the lectures given by the author at Eötvös Loránd University and at Budapest Semesters in Mathematics. In the first chapter, some preliminary definitions and facts are collected, that will be used later. The classical roots of modern differential geometry are presented in the next two chapters.

### **Modern Differential Geometry of Curves and Surfaces with ...**

Modern Differential Geometry of Curves and Surfaces with Mathematica. Boca Raton, FL: Chapman & Hall/CRC, 2006. ISBN: 9781584884484. The course will follow the first half of Kuhnel, but rather loosely. For that reason, attendance, and taking notes in classes, is strongly encouraged. Grading.

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, 845. [CrossRef] 41.Gray, A.; Abbena, E.; Salamon, S. Modern Differential Geometry of Curves and Surfaces with Mathematica; CRC Press: Boca Raton, FL, USA, 1993; pp ...

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## **Review: Modern Differential Geometry of Curves and ...**

Differential geometry is a mathematical discipline that uses the techniques of differential calculus, integral calculus, linear algebra and multilinear algebra to study problems in geometry. The theory of plane and space curves and surfaces in the three-dimensional Euclidean space formed the basis for development of differential geometry during the 18th century and the 19th century. Since the late 19th

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century, differential geometry has grown into a field concerned more generally with the geomet

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