

## **PDF DIFFERENTIAL GEOMETRY**



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With respect to the given coordinate system, the sum of two vectors  $x$  and  $y$  in  $R^3$  is calculated componentwise:  
 $x+y = [x_1, x_2, x_3] + [y_1, y_2, y_3] = [x_1 + y_1, x_2 + y_2, x_3 + y_3]$ . Similarly for the difference of two vectors.

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Differential Geometry Normal curvature is defined as curvature of the normal curve at a point Can be expressed in terms of fundamental forms as  $\kappa_n = \frac{t^T II t}{t^T I t} = \frac{e_{22} + 2f_{ab} + g_{b2}}{e_{a2} + 2F_{ab} + G_{b2}} = \frac{a_x u + b_x v}{a_x u + b_x v}$

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U of p, an open subset V of  $\mathbb{R}^m$  and a homeomorphism  $x: U \rightarrow V$ . The pair  $(U, x)$  is called a chart (or local coordinates) on M. The integer m is called the dimension of M. To denote that the dimension of M is m we write  $M_m$ .

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Equation (1.8) shows that the normal curvature is a quadratic form of the  $u_i$ , or loosely speaking a quadratic form of the tangent vectors on the surface. It is therefore not necessary to describe the curvature properties of a surface at every point by giving all normal curvatures in all directions.

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This course is an introduction to differential geometry. The course itself is mathematically rigorous, but still emphasizes concrete aspects of geometry, centered on the notion of curvature.

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