

Chapter 10 Vector Calculus

$$(2) |\hat{b}| = 1 \Rightarrow \hat{b} \cdot \frac{d\hat{b}}{ds} = 0 \Rightarrow \hat{b} \perp \frac{d\hat{b}}{ds}$$

$$\text{for } \hat{b} \cdot \hat{t} = 0 \Rightarrow 0 = \frac{d}{ds}(\hat{b} \cdot \hat{t}) = \frac{d\hat{b}}{ds} \cdot \hat{t} + \hat{b} \cdot \frac{d\hat{t}}{ds} = \frac{d\hat{b}}{ds} \cdot \hat{t} + \hat{b} \cdot \kappa \hat{t} = \frac{d\hat{b}}{ds} \cdot \hat{t} \Rightarrow \hat{t} \perp \frac{d\hat{b}}{ds}$$

$$\frac{d\hat{b}}{ds} \text{ perpendicular to } \hat{b} \text{ and } \hat{t} \Rightarrow \frac{d\hat{b}}{ds} \propto \hat{n}$$

$$\frac{d\hat{b}}{ds} = -\tau \hat{n} \Rightarrow \tau = -\hat{n} \cdot \frac{d\hat{b}}{ds} \text{ the torsion of a curve}$$

$$\sigma = \frac{1}{\tau} \text{ the radius of the torsion}$$

$$(3) \hat{n} = \hat{b} \times \hat{t}$$

$$\frac{d\hat{n}}{ds} = \frac{d\hat{b}}{ds} \times \hat{t} + \hat{b} \times \frac{d\hat{t}}{ds} = -\tau \hat{n} \times \hat{t} + \hat{b} \times \kappa \hat{t} = \tau \hat{b} - \kappa \hat{t}$$

Frenet-Serret

formula:

$$\frac{d\hat{t}}{ds} = \kappa \hat{n}$$

$$\frac{d\hat{n}}{ds} = \tau \hat{b} - \kappa \hat{t}$$

$$\frac{d\hat{b}}{ds} = -\tau \hat{n}$$

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Contemporary Calculus IV Dale Hoffman, 2013-04-03 This is a textbook for 4th quarter calculus covering the Vectors Vector Valued Functions Functions of Several Variables and Double Integrals It has explanations examples worked solutions problem sets and answers It has been reviewed by calculus instructors and class tested by them and the author Besides technique practice and applications of the techniques the examples and problem sets are also designed to help students develop a visual and conceptual understanding of the main ideas The exposition and problem sets have been highly rated by reviewers

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differential equations Wilfred Kaplan, Donald John Lewis, 1970 **Calcutta Review** ,1924 **Calculus: Multivariable calculus, linear algebra, and differential equations** Stanley I. Grossman, 1981 **McGraw-Hill Encyclopedia of Science and Technology** ,1960 *Mathematics Catalog 2005* Neil Thomson, 2004-10 *McGraw-Hill Encyclopedia of Science and Technology: index* ,1966 *Elements of Applied Mathematics I* [A]kov Borisovich Zel'dovich, Anatolii Dmitrievich Myshkis, 1976 **Catalogue** Bernard Quaritch (Firm), 1901 **Five-figure Mathematical Tables** ,1915
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