

Elementare Differentialgeometrie

Übungsblatt 5

Aufgabe 1.

- (a) Sei M eine Fläche und H eine Ebene im \mathbb{R}^3 , die M in einer Kurve γ schneidet. Zeigen Sie, daß γ eine Geodätische ist, falls H eine Symmetrieebene von M ist.
- (b) Jede Gerade auf einer Fläche ist eine Geodätische.
- (c) Sei M die Fläche $\{x^2 + y^2 - z^2 = 1\}$. Finden Sie möglichst viele Geodätische auf M .

Aufgabe 2. Man bilde den Durchschnitt des Zylinders $\{x^2 + y^2 = 1\}$ im \mathbb{R}^3 mit einer Ebene, die die x -Achse enthält und einen Winkel θ mit der xy -Ebene bildet.

- (a) Zeigen Sie, daß die Schnittkurve γ eine Ellipse ist.
- (b) Berechnen Sie die geodätische Krümmung und die Normalkrümmung von γ , aufgefaßt als Kurve im Zylinder, in den Punkten, in denen die Ellipse ihre Achsen schneidet.

Aufgabe 3.

- (a) Die Matrix (L_{ij}) , die die zweite Fundamentalförm beschreibt, ist für eine Rotationsfläche wie in Aufgabe 1 vom Übungsblatt 4 gegeben durch

$$\frac{1}{\sqrt{r^2 + z^2}} \begin{pmatrix} rz - zr & 0 \\ 0 & rz \end{pmatrix}.$$

- (b) Es gilt $\det(L_{ij}) = 0$ genau dann, wenn jeder Meridian eine Gerade ist.

Aufgabe 4. Betrachten Sie ein Flächenstück von der Form

$$\kappa(u^1, u^2) = (u^1, u^2, f(u^1, u^2)),$$

d.h. einen Graphen. Berechnen Sie die erste und die zweite Fundamentalförm (g_{ij}) , (L_{ij}) . Bestimmen Sie das Christoffel-Symbol Γ_{ij}^k sowohl extrinsisch (d.h. mittels der ursprünglichen Definition) als auch intrinsisch (d.h. mittels Satz 3.5).

Elementare Differentialgeometrie

Richard Bailey



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Table of Contents Elementare Differentialgeometrie

1. Understanding the eBook Elementare Differentialgeometrie
 - The Rise of Digital Reading Elementare Differentialgeometrie
 - Advantages of eBooks Over Traditional Books
2. Identifying Elementare Differentialgeometrie
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Elementare Differentialgeometrie
 - User-Friendly Interface
4. Exploring eBook Recommendations from Elementare Differentialgeometrie
 - Personalized Recommendations
 - Elementare Differentialgeometrie User Reviews and Ratings
 - Elementare Differentialgeometrie and Bestseller Lists
5. Accessing Elementare Differentialgeometrie Free and Paid eBooks
 - Elementare Differentialgeometrie Public Domain eBooks
 - Elementare Differentialgeometrie eBook Subscription Services
 - Elementare Differentialgeometrie Budget-Friendly Options

6. Navigating Elementare Differentialgeometrie eBook Formats
 - ePub, PDF, MOBI, and More
 - Elementare Differentialgeometrie Compatibility with Devices
 - Elementare Differentialgeometrie Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Elementare Differentialgeometrie
 - Highlighting and Note-Taking Elementare Differentialgeometrie
 - Interactive Elements Elementare Differentialgeometrie
8. Staying Engaged with Elementare Differentialgeometrie
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Elementare Differentialgeometrie
9. Balancing eBooks and Physical Books Elementare Differentialgeometrie
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Elementare Differentialgeometrie
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Elementare Differentialgeometrie
 - Setting Reading Goals Elementare Differentialgeometrie
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Elementare Differentialgeometrie
 - Fact-Checking eBook Content of Elementare Differentialgeometrie
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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