

Curvas y Superficies para modelado geométrico

Para representar curvas y superficies en CAGD (Computer Aided Geometric Design) se utilizan generalmente las representaciones implícita y paramétrica, pero fundamentalmente esta última.

La representación implícita $F(x,y)=0$ es muy útil para curvas y superficies estándar (plano, cuádrica, toroide, etc.) y que son fácilmente desplazables por medio de un cambio en el término independiente. Por ejemplo:

Circunferencia: $(x-x_c)^2 + (y-y_c)^2 = r^2$. Cambiando r la circunferencia se "infla" o "desinfla".

Plano: $ax + by + cz = d$. Cambiando d , el plano se desplaza conservando la normal.

Para curvas y superficies "libres" (*free-form surfaces*) se suele utilizar la representación paramétrica, donde las coordenadas están representadas mediante funciones de uno o dos parámetros:

Curva: $P(u) = (x(u), y(u), z(u))$

Superficie: $P(u,v) = (x(u,v), y(u,v), z(u,v))$

En general se restringe el conjunto de funciones mediante una base de funciones que suele ser de potencias o trigonométrica. Pero en CG, la más utilizada es la primera y de un modo que facilita el procesamiento en la computadora.

Una curva en serie (finita) de potencias se define mediante un conjunto (finito) de parámetros vectoriales a_i :

$$P(u) = \sum a_i u^i \quad (\text{aquí el superíndice del parámetro indicará siempre potenciación})$$

Pero para el usuario no resulta sencillo definir el conjunto de parámetros que hace que la curva tenga la forma deseada. Lo que suele hacerse es imponer un conjunto de puntos que definen la curva (ya sea por interpolación o por aproximación) y requerir algún grado de suavidad de la curva, es decir que las derivadas varíen de algún modo predeterminado.

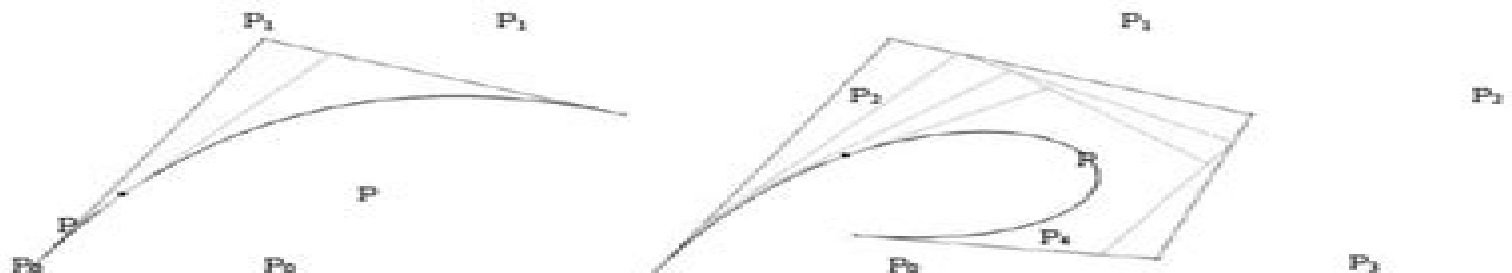
Para el diseño asistido de curvas y superficies se han desarrollado muchos métodos que logran los objetivos de simplicidad y eficiencia computacional. Por razones históricas y de conveniencia han sobrevivido unos pocos y aquí estudiaremos con mayor profundidad los más utilizados: las curvas y superficies de Bézier y NURBS.

Curvas de Bézier

Se denomina curva de Bézier a un método de definición de una curva en serie de potencias. El método consiste en definir algunos **puntos de control**, a partir de los cuales se calculan los puntos de la curva.

Describiremos el método de construcción recursivo conocido como **algoritmo de De Casteljau**.

Para dos puntos, la curva es un segmento recto, definido en forma paramétrica por interpolación de los puntos extremos: $P = (1-u)P_0 + uP_1$. Donde los P_i son los puntos de control y $u \in [0,1]$ el parámetro.



Agregando un punto de control más la curva adquiere más interés: se interpola linealmente en cada uno de los segmentos y luego entre los puntos resultantes, siempre con el mismo valor del parámetro. Para más puntos de control, el proceso se repite en forma iterativa.

La poligonal que forman los puntos de control se conoce como **polígono de control**.

Curvas Y Superficies Para Modelado Geometrico

M Carnoy



Curvas Y Superficies Para Modelado Geometrico:

Unveiling the Energy of Verbal Artistry: An Psychological Sojourn through **Curvas Y Superficies Para Modelado Geometrico**

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Table of Contents Curvas Y Superficies Para Modelado Geometrico

1. Understanding the eBook Curvas Y Superficies Para Modelado Geometrico
 - The Rise of Digital Reading Curvas Y Superficies Para Modelado Geometrico
 - Advantages of eBooks Over Traditional Books
2. Identifying Curvas Y Superficies Para Modelado Geometrico
 - 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 Curvas Y Superficies Para Modelado Geometrico
 - User-Friendly Interface
4. Exploring eBook Recommendations from Curvas Y Superficies Para Modelado Geometrico

- Personalized Recommendations
- Curvas Y Superficies Para Modelado Geometrico User Reviews and Ratings
- Curvas Y Superficies Para Modelado Geometrico and Bestseller Lists
- 5. Accessing Curvas Y Superficies Para Modelado Geometrico Free and Paid eBooks
 - Curvas Y Superficies Para Modelado Geometrico Public Domain eBooks
 - Curvas Y Superficies Para Modelado Geometrico eBook Subscription Services
 - Curvas Y Superficies Para Modelado Geometrico Budget-Friendly Options
- 6. Navigating Curvas Y Superficies Para Modelado Geometrico eBook Formats
 - ePub, PDF, MOBI, and More
 - Curvas Y Superficies Para Modelado Geometrico Compatibility with Devices
 - Curvas Y Superficies Para Modelado Geometrico Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Curvas Y Superficies Para Modelado Geometrico
 - Highlighting and Note-Taking Curvas Y Superficies Para Modelado Geometrico
 - Interactive Elements Curvas Y Superficies Para Modelado Geometrico
- 8. Staying Engaged with Curvas Y Superficies Para Modelado Geometrico
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Curvas Y Superficies Para Modelado Geometrico
- 9. Balancing eBooks and Physical Books Curvas Y Superficies Para Modelado Geometrico
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Curvas Y Superficies Para Modelado Geometrico
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Curvas Y Superficies Para Modelado Geometrico
 - Setting Reading Goals Curvas Y Superficies Para Modelado Geometrico
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Curvas Y Superficies Para Modelado Geometrico

- Fact-Checking eBook Content of Curvas Y Superficies Para Modelado Geometrico
 - 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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