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An introduction to NURBS. Philippe Lavoie January 20, 1999. A three dimensional (3D) object is composed of curves and surfaces. One must find a way to represent these to be able to model accurately an object. The two most common methods to represent a curve or a surface are the implicit and

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the parametric method.

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An Introduction to NURBS by David F. Rogers: Table of Contents. Chapter 1 Curve and Surface Representation: Chapter 2 Bezier Curves: Chapter 3 B-spline Curves: Chapter 4 Rational B-spline Curves: Chapter 5 Bezier Surfaces: Chapter 6 B-spline Surfaces: Chapter 7 Rational B-spline Surfaces:

An Introduction to NURBS Table of Contents Page

NURBS++ generates two types of standard curves automatically: a circle or a line. You can create a circle centered at $(0;0;0)$ of radius 1 and having a starting and ending angle of 0 and 2π respectively. Since a NURBS curve is rational, it can represent exactly a circle. Something that a B-Spline can't do. NurbsCurvef curve ;

An introduction to NURBS

The algorithms are implementations of

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the pseudocode in Appendix C of An Introduction to NURBS. Here the algorithms have been loosely translated into a 'real' programming language, i.e., C. Hopefully, the availability of the algorithms in C will increase your understanding of the algorithms and hence of the underlying mathematics.

An Introduction to NURBS C code Page - NAR Associates

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NURBS (Non-uniform Rational B-Splines) are the computer graphics industry standard for curve and surface description. They are now incorporated into all standard computer-aided design and drafting programs (for instance, Autocad).

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Non-uniform rational basis spline (NURBS) is a mathematical model commonly used in computer graphics for generating and representing curves and surfaces. It offers great flexibility and precision for handling both analytic (surfaces defined by common mathematical formulae) and modeled shapes.

Non-uniform rational B-spline - Wikipedia

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surfaces. Throughout, it relies heavily on illustrations and fully worked examples that will help you grasp key NURBS concepts and deftly apply them in your work.

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Books : An Introduction to Nurbs: With
Historical Perspective (The Morgan
Kauffmann Series in Computer Graphics)
(Hardcover) • Author: David F Rogers •
ISBN:9781558606692 •
Format:Hardcover • Publication
Date:2000-07-21

Copyright code:
d41d8cd98f00b204e9800998ecf8427e.