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Cubic polynomial splines are extensively used in computer graphics and geometric modeling to obtain curves or motion trajectories that pass through specified points of the plane or three-dimensional space. In these applications, each coordinate of the plane or space is separately interpolated by a cubic spline function of a separate parameter  $t$ .

## **Cubic Hermite spline - Wikipedia**

Introduction. The term "B-spline" was coined by Isaac Jacob

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Schoenberg and is short for basis spline. A spline function of order  $n$  is a piecewise polynomial function of degree  $n-1$  in a variable  $t$ . The places where the pieces meet are known as knots. The key property of spline functions is that they and their derivatives may be continuous, depending on the multiplicities of the knots.

### **B-spline - Wikipedia**

BRL-CAD is a powerful, cross-platform, open source solid modeling system. This 3D CAD modeling software tool includes interactive geometry editing, high-performance ray-tracing for rendering and geometric analysis, and much more for product engineers. Key Features: Combinatorial constructive solid geometry (CSG) solid modeling system

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Non-uniform rational B-splines are mathematical representations of 3D geometry that can accurately describe any shape from a

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simple 2D line to the most complex 3D organic surface or freeform solid. Due to the highest level of mathematical precision, flexibility, and accuracy, NURBS surfaces are most often used in modeling in the field of ...

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The Geometry node gives geometric information about the current shading point. All vector coordinates are in World Space. For volume shaders, only the position and incoming vector are available. Inputs This node has no inputs. Properties This node has no properties. Outputs Position

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