

## An Introduction To Nurbs With Historical Perspective The Morgan Kaufmann Series In Computer Graphics By David F Rogers

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"Amazon.de Curve and surface computer modeling is far more complex than what you see on screen. It is quite a feat to convert a data set into a visual image, and a bigger trick to convert it into a recognizable dimensional object that you can turn as if you were holding it in your hand. The mathematical heroes who paved the road to this point are acknowledged eloquently in David Rogers's An Introduction to NURBS with Historical Perspective. Rogers himself is a figure in computer graphics history, having penned Mathematical Elements for Computer Graphics and Procedural Elements for Computer Graphics. In An Introduction to NURBS, he takes us on a mathematical journey that introduces the concept and details of non-uniform rational B-splines, while simultaneously shedding light on the mathematical wizards that make NURBS possible. This is a hardcover textbook (not light reading) with enough equations and pseudocode to satisfy even the hungriest of math theorists. With seven chapters, starting with 'Curve and Surface Representation' through 'B-Spline Curves' to 'Bzier Surfaces,' the book is a thorough primer for those who are working toward understanding computer graphic modeling. What really sets this book apart from other texts, however, is the closing portion of each chapter, in which readers get a historical perspective of the current state of the art in curve and surface mathematics, in passages written by such luminaries as Robin Forrest (Bzier curves), Rich Riesenfeld (B-splines), and Lewis Knapp (rational B-splines). --Mike Caputo Synopsis The latest from a computer graphics pioneer, 'An Introduction to NURBS' is the ideal resource for anyone seeking a theoretical and practical understanding of these very important curves and surfaces. Beginning with Bezier curves, the book develops a lucid explanation of NURBS curves, then does the same for surfaces, consistently stressing important shape design properties and the capabilities of each curve and surface type. 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. Supplementing the lucid, point-by-point instructions are illuminating accounts of the history of NURBS, written by some of its most prominent figures. Whether you write your own code or simply want deeper insight into how your computer graphics application works, 'An Introduction to NURBS' will enhance and extend your knowledge to a degree unmatched by any other resource. This book presents vital information with applications in many different areas such as: CAD, scientific visualization, animation, computer games, and more. It facilitates accessibility to anyone with a knowledge of first-year undergraduate mathematics. Key features include: detailing specific NURBS-based techniques, including making cusps with B-spline curves and conic sections with rational B-spline curves; presenting all important algorithms in easy-to-read pseudocode-useful for both implementing them and understanding how they work; and, including complete references to additional NURBS resources. Alle Produktbeschreibungen"

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