

Les Piegl
Wayne Tiller

The *NURBS* Book

2nd Edition



MONOGRAPHS IN VISUAL COMMUNICATION



Springer

The Nurbs 2nd Edition

Katsuyuki Kida



The Nurbs 2nd Edition:

The NURBS Book Les Piegl, Wayne Tiller, 2012-12-06 Until recently B spline curves and surfaces NURBS were principally of interest to the computer aided design community where they have become the standard for curve and surface description Today we are seeing expanded use of NURBS in modeling objects for the visual arts including the film and entertainment industries art and sculpture NURBS are now also being used for modeling scenes for virtual reality applications These applications are expected to increase Consequently it is quite appropriate for The NURBS Book to be part of the Monographs in Visual Communication Series B spline curves and surfaces have been an enduring element throughout my professional life The first edition of *Mathematical Elements for Computer Graphics* published in 1972 was the first computer aided design interactive computer graphics textbook to contain material on B splines That material was obtained through the good graces of Bill Gordon and Louie Knapp while they were at Syracuse University A paper of mine presented during the Summer of 1977 at a Society of Naval Architects and Marine Engineers meeting on computer aided ship surface design was arguably the first to examine the use of B spline curves for ship design For many B splines rational B splines and NURBS have been a bit mysterious [Proceedings of All India Seminar on Advances in Product Development \(APD-2006\)](#) R.K.

Srivastava, 2006 Papers presented at an All India Seminar on Advances in Product Development 17-18 February 2006

[CRC Concise Encyclopedia of Mathematics](#) Eric W. Weisstein, 2002-12-12 Upon publication the first edition of the CRC Concise Encyclopedia of Mathematics received overwhelming accolades for its unparalleled scope readability and utility It soon took its place among the top selling books in the history of Chapman Hall CRC and its popularity continues unabated Yet also unabated has been the d **Architecture in the Digital Age** Branko Kolarevic, 2004-03-01 Architecture in the Digital Age addresses contemporary architectural practice in which digital technologies are radically changing how buildings are conceived designed and produced It discusses the digitally driven changes their origins and their effects by grounding them in actual practices already taking place while simultaneously speculating about their wider implications for the future The book offers a diverse set of ideas as to what is relevant today and what will be relevant tomorrow for emerging architectural practices of the digital age *Machine Design and Manufacturing Engineering II* Katsuyuki Kida, 2013-08-16

Selected peer reviewed papers from the 2013 2nd International Conference on Machine Design and Manufacturing

Engineering ICMDME 2013 May 1-2 2013 Jeju Island South Korea **The Art of Modeling Mechanical Systems**

Friedrich Pfeiffer, Hartmut Bremer, 2016-09-14 The papers in this volume present rules for mechanical models in a general systematic way always in combination with small and large examples many from industry illustrating the most important features of modeling The best way to reach a good solution is discussed The papers address researchers and engineers from academia and from industry doctoral students and postdocs working in the fields of mechanical civil and electrical

engineering as well as in fields like applied physics or applied mathematics **Real-Time Rendering, Second Edition**

Tomas Möller, Eric Haines, 2002 After three years this wonderful all around resource of computer graphics indispensable for every serious graphics programmer is available in a completely revised and updated edition Nearly doubled in size the new edition keeps pace with the astonishing developments in hardware and software that have increased the speed and quality of rendering images The new edition includes information on the latest technology that is being released concurrently with the publication The book's trademark blending solid theory and practical advice remains intact making it mandatory for every programmer who wants to stay at the cutting edge The book contains chapters as diverse as Transforms Visual Appearance Acceleration Algorithms Advanced Shading Techniques New Chapter Curved Surfaces New Chapter With Topics Including Pixel shaders Subdivision surfaces Intersection algorithms Pipeline tuning Advanced Designs and Researches for Manufacturing Peng Cheng Wang, Xiang Dong Liu, Yong Quan Han, 2012-12-13 Selected papers from the 2nd International Conference on Materials and Products Manufacturing Technology ICMPMT 2012 September 22 23 2012 Guangzhou China **Proceedings**, 2003 *Choice*, 1998 *Landscape Characterization with the Multiplicatively Weighted Voronoi Diagram* Lan Mu, 2002 **International Conference on Simulation of Semiconductor Processes and Devices**, 2000 **2000 IEEE Nuclear Science Symposium**, 2001 Proceedings of the ASME Turbo Expo ..., 2003 *DETC2005*, 2005 Journal of hydrodynamics, 2008 **Dr. Dobb's Journal**, 1997 Journal of Zhejiang University, 2006 **Proceedings of 2002 IEEE Workshop on Multimedia Signal Processing**, 2002 **Manufacturing Engineering Handbook, Second Edition** Hwaiyu Geng, 2015-10-22 The new edition of this professional resource reveals how to optimize all aspects of the global manufacturing process to build the highest quality goods at the lowest price in the shortest possible time How can one apply technical and business knowledge to develop a strategic plan that delivers increased productivity quality sustainability reliability agility resilience and best practices with rapid time to production and value The answers are found in the fully updated new edition of Manufacturing Engineering Handbook The goal of this second edition is to provide the essential knowledge needed to build products with the highest quality at the lowest cost in the least amount of time by optimizing all aspects of the manufacturing process design development tools processes quality speed output safety and sustainability You will gain access to information on conventional and modern technologies manufacturing processes and operations management that will assist you in achieving these goals The book is written by a team of more than 100 internationally renowned manufacturing engineering experts and pared down from its original 1200 pages The new and vastly improved second edition is specifically designed to concisely and succinctly cover traditional manufacturing processes and advanced technologies as well as newer manufacturing software and systems to integrate them into the modern global manufacturing world Brand new chapters on eco design and sustainability nano materials and nano manufacturing facilities planning operations research New sections on plastics composites and moldmaking global manufacturing and supply chain management Increased coverage of Design for Six Sigma and adaptive manufacturing Affiliated web site with color

illustrations graphs charts discussions on future trends additional technical papers and suggestions for further reading

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