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Dr. Rogers is the author of five textbooks including An Introduction to NURBS, With Historical Perspective ; Laminar Flow Analysis, Mathematical Elements for Computer Graphics, Procedural Elements for Computer Graphics, and Computer Aided Heat Transfer Analysis.

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Mathematical elements for computer graphics (1990 edition ...
Mathematical elements for computer graphics Details Category: Computer Mathematical elements for computer graphics Material Type Book

Language English Title Mathematical elements for computer graphics Author(S) David F. Rogers (Author) J. Alan Adams (Author) Publication Data New York: McGraw-Hill Publishing Company Publication€ Date 1990 ...

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Download Free David F Rogers Mathematical Element For Computer GraphicsTransfer Analysis. He is also the co-editor of four books from the State-of-the-Art Series on Computer Graphics and the Proceedings of ICCAS 82 - the International Conference on Computer Automation of Ship Design and Ship

David F Rogers Mathematical Element For Computer Graphics
David F. Rogers is Professor of Aerospace Engineering at the U.S. Naval Academy with nearly 35 years of teaching experience. He has written four textbooks including Computer Aided Heat Transfer Analysis (with J. Alan Adams), Procedural Elements for Computer Graphics and Mathematical Elements for Computer Graphics (with J. Alan Adams) and edited several additional volumes.

This text is ideal for junior-, senior-, and graduate-level courses in computer graphics and computer-aided design taught in departments of mechanical and aeronautical engineering and computer science. It presents in a unified manner an introduction to the mathematical theory underlying computer graphic applications. It covers topics of keen interest to students in engineering and computer science: transformations, projections, 2-D and 3-D curve definition schemes, and surface definitions. It also includes techniques, such as B-splines, which are incorporated as part of the software in advanced engineering workstations. A basic knowledge of vector and matrix algebra and calculus is required.

This text offers complete coverage of computer graphics. As a textbook, it can be used effectively in senior-level computer graphics courses or in first year graduate-level courses. It features an emphasis on rendering and in-depth coverage of all classical computer graphics algorithms. Procedural Elements of Computer Graphics also contains more than 90 worked examples, and is suitable for use by professional programmers, engineers, and scientists.

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). They are also extensively used in all aspects of computer graphics including much of the modeling used for special effects in film and animation, consumer products, robot control, and automobile and aircraft design. So, the topic is particularly important at this time because NURBS are really at the peak of interest as applied to computer graphics and CAD of all kind.

The fundamental mathematical tools needed to understand machine learning include linear algebra, analytic geometry, matrix decompositions, vector calculus, optimization, probability and statistics. These topics are traditionally taught in disparate courses, making it hard for data science or computer science students, or professionals, to efficiently learn the mathematics. This self-contained textbook bridges the gap between mathematical and machine learning texts, introducing the mathematical concepts with a minimum of prerequisites. It uses these concepts to derive four central machine learning methods: linear regression, principal component analysis, Gaussian mixture models and support vector machines. For students and others with a mathematical background, these derivations provide a starting point to machine learning texts. For those learning the mathematics for the first time, the methods help build intuition and practical experience with applying mathematical concepts. Every chapter includes worked examples and exercises to test understanding. Programming tutorials are offered on the book's web site.

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.N'URBS Book to be part of the Monographs in Visual Communication Series. B-spline curves and surfaces have been an enduring element throughout my pro fessional life. The first edition of Mathematical Elements for Computer Graphics, published in 1972, was the first computer aided design/interactive computer graph ics 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.