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principles of 3D computer graphics, but also the use of the OpenGL Application Programming Interface (API) to code 3D scenes and animation, ...

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OpenGL was ported from the archaic Graphics Library (GL) system developed by Silicon Graphics Inc. as the means to program the company's high-performance specialised graphics workstations. GL was ported to OpenGL in 1992 so that the technology would be platform-independent, i.e., not just work on Silicon Graphics machines.

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Welcome to the Computer Graphics with Modern OpenGL and C++ course! This course is designed to be unique from most other OpenGL courses out there, because it not only teaches you the code needed to use OpenGL, but it also teaches you the THEORY behind it all! This is immensely important for any aspiring graphics or game developer, because understanding the theory behind what we do enables you to form your own graphical style!

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COMPREHENSIVE COVERAGE OF SHADERS AND THE PROGRAMMABLE PIPELINE From geometric primitives to animation to 3D modeling to lighting, shading and texturing, Computer Graphics Through OpenGL®: From Theory to Experiments is a comprehensive introduction to computer graphics which uses an active learning style to teach key concepts. Equally emphasizing theory and practice, the book provides an understanding not only of the principles of 3D computer graphics, but also the use of the OpenGL® Application Programming Interface (API) to code 3D scenes and animation, including games and movies. The undergraduate core of the book takes the student from zero knowledge of computer graphics to a mastery of the fundamental concepts with the ability to code applications using fourth-generation OpenGL®. The remaining chapters explore more advanced topics, including the structure of curves and surfaces, applications of projective spaces and transformations and the implementation of graphics pipelines. This book can be used for introductory undergraduate computer graphics courses over one to two semesters. The careful exposition style attempting to explain each concept in the simplest terms possible should appeal to the self-study student as well. Features • Covers the foundations of 3D computer graphics, including animation, visual techniques and 3D modeling • Comprehensive coverage of OpenGL® 4.x, including the GLSL and vertex, fragment, tessellation and geometry shaders • Includes 180 programs with 270 experiments based on them • Contains 750 exercises, 110 worked examples, and 700 four-color illustrations • Requires no previous knowledge of computer graphics • Balances theory with programming

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practice using a hands-on interactive approach to explain the underlying concepts

COMPREHENSIVE COVERAGE OF SHADERS AND THE PROGRAMMABLE PIPELINE From geometric primitives to animation to 3D modeling to lighting, shading and texturing, Computer Graphics Through OpenGL®: From Theory to Experiments is a comprehensive introduction to computer graphics which uses an active learning style to teach key concepts. Equally emphasizing theory and practice, the book provides an understanding not only of the principles of 3D computer graphics, but also the use of the OpenGL® Application Programming Interface (API) to code 3D scenes and animation, including games and movies. The undergraduate core of the book takes the student from zero knowledge of computer graphics to a mastery of the fundamental concepts with the ability to code applications using fourth-generation OpenGL®. The remaining chapters explore more advanced topics, including the structure of curves and surfaces, applications of projective spaces and transformations and the implementation of graphics pipelines. This book can be used for introductory undergraduate computer graphics courses over one to two semesters. The careful exposition style attempting to explain each concept in the simplest terms possible should appeal to the self-study student as well. Features • Covers the foundations of 3D computer graphics, including animation, visual techniques and 3D modeling • Comprehensive coverage of OpenGL® 4.x, including the GLSL and vertex, fragment, tessellation and geometry shaders • Includes 180 programs with 270 experiments based on them • Contains 750 exercises, 110 worked examples, and 700 four-color illustrations • Requires no previous knowledge of computer graphics • Balances theory with programming

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practice using a hands-on interactive approach to explain the underlying concepts

OpenGL ES is the standard graphics API used for mobile and embedded systems. Despite its widespread use, there is a lack of material that addresses the balance of both theory and practice in OpenGL ES. JungHyun Han ' s Introduction to Computer Graphics with OpenGL ES achieves this perfect balance. Han ' s depiction of theory and practice illustrates how 3D graphics fundamentals are implemented. Theoretical or mathematical details around real-time graphics are also presented in a way that allows readers to quickly move on to practical programming. Additionally, this book presents OpenGL ES and shader code on many topics. Industry professionals, as well as, students in Computer Graphics and Game Programming courses will find this book of importance.

This new edition provides step-by-step instruction on modern 3D graphics shader programming in OpenGL with C++, along with its theoretical foundations. It is appropriate both for computer science graphics courses and for professionals interested in mastering 3D graphics skills. It has been designed in a 4-color, " teach-yourself " format with numerous examples that the reader can run just as presented. Every shader stage is explored, from the basics of modeling, textures, lighting, shadows, etc., through advanced techniques such as tessellation, normal mapping, noise maps, as well as new chapters on simulating water, stereoscopy, and ray tracing. FEATURES: Covers modern OpenGL 4.0+ shader programming

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in C++, with instructions for both PC/Windows and Macintosh Adds new chapters on simulating water, stereoscopy, and ray tracing Includes companion files with code, object models, figures, and more (also available for downloading by writing to the publisher) Illustrates every technique with running code examples. Everything needed to install the libraries, and complete source code for each example Includes step-by-step instruction for using each GLSL programmable pipeline stage (vertex, tessellation, geometry, and fragment) Explores practical examples for modeling, lighting, and shadows (including soft shadows), terrain, water, and 3D materials such as wood and marble Explains how to optimize code for tools such as Nvidia 's Nsight debugger.

This new edition provides step-by-step instruction on modern 3D graphics shader programming in OpenGL with Java, along with its theoretical foundations. It is appropriate both for computer science graphics courses, and for professionals interested in mastering 3D graphics skills. It has been designed in a 4-color, "teach-yourself" format with numerous examples that the reader can run just as presented. Every shader stage is explored, from the basics of modeling, textures, lighting, shadows, etc., through advanced techniques such as tessellation, normal mapping, noise maps, as well as new chapters on simulating water, stereoscopy, and ray tracing. FEATURES Covers modern OpenGL 4.0+ shader programming in Java, with instructions for both PC/Windows and Macintosh Illustrates every technique with running code examples. Everything needed to install the libraries, and complete source code for each example Includes step-by-step instruction for using each GLSL programmable pipeline stage (vertex, tessellation, geometry, and fragment) Explores practical examples for

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modeling, lighting and shadows (including soft shadows), terrain, water, and 3D materials such as wood and marble Adds new chapters on simulating water, stereoscopy, and ray tracing with compute shaders Explains how to optimize code with tools such as Nvidia 's Nsight debugger Includes companion files with code, object models, figures, and more

This textbook, first published in 2003, emphasises the fundamentals and the mathematics underlying computer graphics. The minimal prerequisites, a basic knowledge of calculus and vectors plus some programming experience in C or C++, make the book suitable for self study or for use as an advanced undergraduate or introductory graduate text. The author gives a thorough treatment of transformations and viewing, lighting and shading models, interpolation and averaging, Bézier curves and B-splines, ray tracing and radiosity, and intersection testing with rays. Additional topics, covered in less depth, include texture mapping and colour theory. The book covers some aspects of animation, including quaternions, orientation, and inverse kinematics, and includes source code for a Ray Tracing software package. The book is intended for use along with any OpenGL programming book, but the crucial features of OpenGL are briefly covered to help readers get up to speed. Accompanying software is available freely from the book's web site.

Assuming no background in computer graphics, this junior - to graduate-level course presents basic principles for the design, use, and understanding of computer graphics systems and applications. The authors, authorities in their field, offer an integrated approach to two-dimensional and three-dimensional graphics topics.

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OpenGL Graphics Through Applications is a practical introduction to Computer Graphics with an emphasis on understanding through practice. Throughout the book, theory is followed by implementation using C / C++ and complete programs are provided on the Springer website. A procedural approach has been taken to algorithmic development while taking an object oriented approach when building artefacts from simple objects. The book covers a range of topics including: (1) image processing, (2) artefact construction, (3) introductory animation, (4) texturing, (5) curves surfaces and patterns. Robert Whitrow has taught computing courses from first year undergraduate to postgraduate MSc at a range of different institutions.

A complete update of a bestselling introduction to computer graphics, this volume explores current computer graphics hardware and software systems, current graphics techniques, and current graphics applications. Includes expanded coverage of algorithms, applications, 3-D modeling and rendering, and new topics such as distributed ray tracing, radiosity, physically based modeling, and visualization techniques.

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