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For junior- to graduate-level courses in computer graphics. Assuming no background in computer graphics, this junior- to graduate-level textbook 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. A comprehensive explanation of the popular OpenGL programming package, along with C++ programming examples illustrates applications of the various functions in the OpenGL basic library and the related GLU and GLUT packages.

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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.

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.

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graphics, starting from basic mathematics and algorithms and concluding with OpenGL and real-time graphics. It gives students a firm foundation in today's high-performance graphics. Up-to-Date Techniques, Algorithms, and API The book includes mathematical background on vectors and matrices as well as quaternions, splines, curves, and surfaces. It presents geometrical algorithms in 2D and 3D for spatial data structures using large data sets. Although the book is mainly based on OpenGL 3.3, it also covers tessellation in OpenGL 4.0, contains an overview of OpenGL ES 2.0, and discusses the new WebGL, which allows students to use OpenGL with shaders directly in their browser. In addition, the authors describe a variety of special effects, including procedural modeling and texturing, fractals, and non-photorealistic rendering. They also explain the fundamentals of the dominant language (OpenCL) and platform (CUDA) of GPGPUs. Web Resource On the book's CRC Press web page, students can download many ready-to-use examples of C++ code demonstrating various effects. C++ wrappers for basic OpenGL entities, such as textures and programs, are also provided. In-Depth Guidance on a Programmable Graphics Pipeline Requiring only basic knowledge of analytic geometry, linear algebra, and C++, this text guides students through the OpenGL pipeline. Using one consistent example, it leads them step by step from simple rendering to animation to lighting and bumpmapping.

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