Graphics Shaders: Theory and Practice (Hardback)

By Mike Bailey, Steve Cunningham

Taylor Francis Inc, United States, 2011. Hardback. Book Condition: New. 2nd Revised edition. 236 x 204 mm. Language: English . Brand New Book. Graphics Shaders: Theory and Practice is intended for a second course in computer graphics at the undergraduate or graduate level, introducing shader programming in general, but focusing on the GLSL shading language. While teaching how to write programmable shaders, the authors also teach and reinforce the fundamentals of computer graphics. The second edition has been updated to incorporate changes in the OpenGL API (OpenGL 4.x and GLSL 4.x0) and also has a chapter on the new tessellation shaders, including many practical examples. The book starts with a quick review of the graphics pipeline, emphasizing features that are rarely taught in introductory courses, but are immediately exposed in shader work. It then covers shader-specific theory for vertex, tessellation, geometry, and fragment shaders using the GLSL 4.x0 shading language. The text also introduces the freely available glman tool that enables you to develop, test, and tune shaders separately from the applications that will use them. The authors explore how shaders can be used to support a wide variety of applications and present examples of shaders in 3D geometry, scientific...

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