

Third Edition

Essential Mathematics for Games and Interactive Applications

Developed from the well-loved course 'Game Developers Conference (GDC) course *Essential Mathematics for Games and Interactive Applications*, Third Edition examines the importance of mathematics in 3D programming. It shows you how to properly rotate, translate, and render scenes and discusses the mathematics behind the processes.

Completely rewritten to be easier and faster to content flow better, this third edition reflects the increased use of shader graphics systems, such as DirectX 11, OpenGL 4.5, GLSL, and the Shader Code Shader. It also updates the material on real-time graphics with coverage of shader models, materials, and lighting.

The book covers the low-level mathematical and geometric representations and algorithms that are the core of any game engine. It also explains all the stages of the rendering pipeline. The authors explain how to represent rotations, color, and various geometry. They then focus on algorithms, specifically the representation, calculation, and use of rays. They also address continuous, intersecting geometric entities, and physical simulation.

Features

- Explains how the mathematical concepts apply to major parts of 3D games
- Covers the entire rendering pipeline, from transformation and animation to light simulation and rasterization
- Shows how to develop and implement game objects
- Presents techniques that make games look more structured and more elegant
- Includes source code, demos, source files, and other materials on a supplementary website

This updated book provides you with a conceptual understanding of the mathematics needed to create 3D games as well as a practical understanding of how these mathematical topics actually apply to games and graphics. It not only explains the theoretical mathematical background but also incorporates many examples of how the concepts are used to affect how a game looks and plays.

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Van Verth
BishopEssential Mathematics for Games
and Interactive Applications

Third Edition

Essential Mathematics for Games and Interactive Applications

James M. Van Verth
Lars M. Bishop

CRC Press
Taylor & Francis Group

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