Advanced RenderMan. The Morgan Kaufmann Series in Computer Graphics

Description:
Advanced RenderMan: Creating CGI for Motion Pictures is precisely what you and other RenderMan users are dying for. Written by the world's foremost RenderMan experts, it offers thoroughly updated coverage of the standard while moving beyond the scope of the original RenderMan Companion to provide in-depth information on dozens of advanced topics. Both a reference and a tutorial, this book will quickly prove indispensable, whether you're a technical director, graphics programmer, modeler, animator, or hobbyist.

Explore the Power of RenderMan

- Use the entire range of geometric primitives supported by RenderMan.
- Understand how and when to use procedural primitives and level of detail.
- Master every nuance of the Shading Language.
- Write detailed procedural shaders using texture, displacement, pattern generation, and custom reflection models.
- Write shaders for special effects relating to volumes, custom lighting, and non-photorealistic media.
- Use antialiasing to ensure that your shaders are free of artifacts.
- Minimize the expense of rendering scenes by optimizing input.

Other Features from Advanced RenderMan

- Offers expert advice and instruction applicable to any RenderMan-compliant renderer.
- Filled with technical illustrations and many full-color representations of effects supported by the RenderMan standard.
- Includes a chapter reviewing key math and computer graphics concepts.

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Preface

Introduction
1. Photosurrealism
2. Review of Math and CG Concepts

Scene Description
3. Describing Models
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6. How PhotoRealistic RenderMan Works

Shading
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8. Texture Mapping and Displacement
9. Illumination Models and Lights
10. Pattern Generation
11. Shader Antialiasing
12. A Gallery of Procedural Shaders

Tricks of the Trade
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14. CG Lighting Controls
15. Volumetric Shaders for Visual Effects
16. Non-Photorealistic Rendering
17. Ray Tracing in PRMan

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