Advanced Image Synthesis

Course Notes

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"Computational Issues in Rendering A -Aliased Detail", Crow (Reprinted from IEEE CompCon Spring 1982)

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"Polygon Geometry", Crow (Sparse notes following slides)

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"Display of Parametric Surfaces", Whitted (Notes following Slides) "Scan Line Methods for Displaying Parametric Surfaces", Lane, Carpenter, Whitted, and Blinn (Reprinted from CACM, January 1980)

"A Fast Algorithm for Rendering Parametric Surfaces", Clark (Reprinted from Siggraph '79)

2.4 - Algebraic Surfaces - Blinn

"The Algebraic Properties of Homogeneous Second-Order Surfaces", Blinn (prepared for this tutorial)

"A Generalization of Algebraic Surface Drawing", Blinn (Reprinted from ACM Transactions on Graphics, July 1982)

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"Models of Light Reflection for Computer Synthesized Images",
Blinn (Reprinted from Siggraph '77)
"Light Reflection Functions for Simulation of clouds and Dusty
Surfaces", Blinn (Reprinted from Siggraph '82)
"Texture and Reflection in Computer Generated Images", Blinn and
Newell (Reprinted from CACM, Oct 1976)

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"A Software Testbed for the Development of 3D Raster Graphics Systems", Whitted and Weiner (Reprinted from ACM Transactions on Graphics, January 1982)

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"A More Flexible Image Generation Environment", Crow (Reprinted from Siggraph '82)

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"Systems Aspects of Computer Image Synthesis and Animation", Blinn (prepared for this tutorial)

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