BIBLIOGRAPHY

Abelson, H., and A. A. diSessa. 1982. *Turtle geometry.* Cambridge, MA: MIT Press.

Abhyankar, S., and C. Bajaj. 1987a. Automatic parametrization of rational curves and surfaces I: Conies and conicoids. *Computer News,* 1:19.

Abhyankar, S., and C. Bajaj. 1987b. Automatic parametrization of rational curves and surfaces II: Conies and conicoids. *Computer News,* 3:25.

Ahlberg, J., E. Nilson, and J. Walsh. 1967. *The theory of splines and their applications.* Boston: Academic Press.

Amanatides, J. 1984. Ray tracing with cones. In H. Christiansen, ed., *Computer Graphics (SIGGRAPH '84 Proceedings),* 18:129–135.

Amburn, P., E. Grant, and T. Whitted. 1986. Managing geometric complexity with enhanced procedural models. *Computer Graphics* 20(4):189–195.

American National Standards Institute. 1986. *Nomenclature and definitions for illumination engineering, ANSI/IBS,* RP-16–1986.

Anderson, D. 1992. Hidden line elimination in projected grid surfaces. *ACM Transactions on Graphics,* 1(4): 274–288.

Apodaca, A. A. 1999. *Advanced RenderMan: Creating CGI for motion pictures.* San Francisco: Morgan Kaufmann. *See also* RenderMan tricks everyone should know in *SIGGRAPH '98,* or *SIGGRAPH '99 Advanced RenderMan Course Notes.*

Apodaca, A. A., and L. Gritz. 2000. *Advanced RenderMan: Creating CGI for motion pictures.* San Francisco: Morgan Kaufmann.

Arvo, J. 1992. Fast random rotation matrices. In David Kirk, ed., *Graphics Gems III,* Academic Press, 117.

Arvo, J., and D. Kirk. 1989. A survey of ray tracing acceleration techniques. In Andrew Glassner, ed., *An introduction to ray tracing,* Boston: Academic Press, 201–262.

Badler, N. I., J. O'Rourke, and B. Kaufman. 1980. Special problems in human movement simulation. *SIGGRAPH '80 Proceedings,* 189–197.

Bagby, D. 1984. Parameterization of elliptical elements. Letter to ANSI X3H3 Committee (August 16, 1984), 17.

Banks, D. 1994. Illumination in diverse codimensions. *Computer Graphics, Annual Conference Series (Proceedings of S1GGRAPH '94),* 327–334.

Baraff, D., and A. P. Witkin. 1998. Large steps in cloth simulation. *Proceedings of SIGGRAPH '98,* 43–54.

Barr, A. H. 1986. Ray tracing deformed surfaces. In Maureen C. Stone, ed., *Computer Graphics (SIGGRAPH '86 Proceedings),* 20:287–296.

Barr, A. H. 1991. Teleological modeling. In N. I. Badler, B. A. Barsky, and D. Zeltzer, eds., *Making them move: Mechanics, control, and animation of articulated figures,* San Francisco: Morgan Kaufmann, 315–321.

Battke, H., D. Stalling, and H.-C. Hege. 1996. *Fast line integral convolution for arbitrary surfaces in 3D.* Preprint SC-96–59, Konrad-Zuse-Zentrum für Informationstechnik Berlin (ZIB).

Bennis, C., J. Vezien, and G. Iglesias. 1991. Piecewise surface flattening for non-distorted texture mapping. *Proceedings of SIGGRAPH '91,* 237–246.

Bian, B. 1990. *Accurate simulation of scene luminances.* Worcester, MA: Worcester Polytechnic Institute.

Birkhoff, G., and S. MacLane. 1965. *A survey of modern algebra,* 3rd edition. New York: MacMillan. Exercise 15, Section IX-3, 240; also corollary, Section IX-14, 277–278.

Bishop, G., and D. M. Weimer. 1986. Fast phong shading. *Computer Graphics,* 20(4):103–106.

Blinn, J. F. 1977. Models of light reflection for computer synthesized pictures. In James George, ed., *Computer Graphics (SIGGRAPH '77 Proceedings),* 11:192–198.

Blinn, J. F. 1978. Simulation of wrinkled surfaces. In James George, ed., *Computer Graphics (SIGGRAPH '78 Proceedings),* 12:286–292.

Blinn, J. F. 1982a. Light reflection functions for simulation of clouds and dusty surfaces. In *Computer Graphics (SIGGRAPH '82 Proceedings)*, 16(3):21–29.

Blinn, J. F. 1982b. A generalization of algebraic surface drawing. *ACM Transactions on Graphics*, 1(3):235–256.

Blinn, J. F., and M. E. Newell. 1976. Texture and reflection in computer generated images. *Communications of the ACM*, 19:542–546.

Bloomenthal, J. 1985. Modeling the mighty maple. In B. A. Barsky, ed., *Computer Graphics (SIGGRAPH '85 Proceedings)*, 19(3):305–311.

Bloomenthal, J., C. Bajaj, J. Blinn, M. P. Cani-Gascuel, A. Rockwood, B. Wyvill, and G. Wyvill. 1997. *Introduction to implicit surfaces*. San Francisco: Morgan Kaufmann.

Bouville, C. 1985. Bounding ellipsoids for ray fractal intersection. In B. A. Barsky, ed., *Computer Graphics (SIGGRAPH '85 Proceedings)*, 19(3):45–52.

Bracewell, R. N. 1986. *The Fourier transform and its applications*. New York: McGraw-Hill.

Breen, D. E., D. H. House, and M. J. Wozny. 1994. Predicting the drape of woven cloth using interacting particles. *Proceedings of SIGGRAPH '94*, 365–372.

Brigham, E. O. 1988. *The fast Fourier transform and its applications*. Englewood Cliffs, NJ: Prentice Hall.

Brinsmead, D. 1993. Convert solid texture. Software component of Alias|Wavefront Power Animator 5.

Brooks, R. 1986. A robust layered control for a mobile robot. *IEEE Journal of Robotics and Automation*, 2(1):14–23.

Brown, L. M., and J. Rigden, eds. 1993. *Most of the good stuff*. New York: American Institute of Physics.

Burt, P. J., and E. H. Adelson. 1983. A multiresolution spine with application to image mosaics. *ACM Transactions on Graphics*, 2(4)217–236.

Cabral, B., N. Cam, and J. Foran. 1994. Accelerated volume rendering and tomographic reconstruction using texture mapping hardware. *ACM/IEEE Symposium on Volume Visualization*, 91–98.

Cabral, B., and L. Leedom. 1993. Imaging vector fields using line integral convolution. *Computer Graphics Proceedings, Annual Conference Series,* 263–270.

Cabral, B., N. Max, and R. Springmeyer. 1987. Bidirectional reflection functions from surface bump maps. In M. C. Stone, ed., *Computer Graphics (SIGGRAPH '87 Proceedings),* 21:273–281.

Cabral, B., M. Olano, and P. Nemec. 1999. Reflection space image based rendering. *Proceedings of SIGGRAPH '99,* 165–170.

Calvert, T. W., J. Chapman, and A. Patla. 1980. The integration of subjective and objective data in the animation of human movement. In *Computer Graphics (SIGGRAPH '80 Proceedings),* 14:198–203.

Canright, D. 1994. Estimating the spatial extent of attractors of iterated function systems. *Computers and Graphics* 18(2):231–238.

Carpenter, L. 1984. The A-buffer, an antialiased hidden surface method. In H. Christiansen, ed., *Computer Graphics (SIGGRAPH '84 Proceedings),* 18:103–108.

Carr, N. A., and J. C. Hart. 2002. Meshed atlases for real-time procedural solid texturing. *ACM Transactions on Graphics,* 21(2), 106–131.

Catmull, E. E. 1974. *A subdivision algorithm for computer display of curved surfaces.* Ph.D. thesis, Department of Computer Science, University of Utah.

Chadwick, J., D. Haumann, and R. Parent. 1989. Layered construction for deformable animated characters. *Computer Graphics,* 23(3):243–252.

Chen, L., G. T. Herman, R. A. Reynolds, and J. K. Udupa. 1985. Surface shading in the cuberille environment. *IEEE Computer Graphics and Applications,* 5(12):33–43.

Cignoni, B., C. Montani, C. Rocchini, and B. Scopigno. A general method for preserving attribute values on simplified meshes. *Proceedings of Visualization '98,* 59–66.

Cline, H. E., W. E. Lorensen, and S. Eudke. 1988. Two algorithms for the three dimensional reconstruction of tomograms. *Medical Physics,* 15(3):320–327.

Cohen, J., M. Olano, and D. Manocha. 1998. Appearance-preserving simplification. *Proceedings of SIGGRAPH '98,* 115–122.

Cook, R. L. 1984. Shade trees. In H. Christiansen, ed., *Computer Graphics (SIGGRAPH '84 Proceedings),* 18(3):223–231.

Cook, R. L. 1986. Stochastic sampling in computer graphics. *ACM Transactions on Graphics,* 5(1):51–72.

Cook, R. L., E. Carpenter, and E. Catmull. 1987. The Reyes image rendering architecture. In M. C. Stone, ed., *Computer Graphics (SIGGRAPH '87 Proceedings),* 95–102.

Cook, R. L., T. Porter, and E. Carpenter. 1984. Distributed ray tracing. In H. Christiansen, ed., *Computer Graphics (SIGGRAPH '84 Proceedings),* 18(3):137–145.

Cook, R. L., and K. E. Torrance. 1981. A reflectance model for computer graphics. In *Computer Graphics (SIGGRAPH '81 Proceedings),* 15:307–316.

Coquillart, S., and M. Gagnet. 1984. Shaded display of digital maps. *IEEE Computer Graphics and Applications,* 35–42.

Cotton, W., and A. Anthes. 1989. *Storm and cloud dynamics.* San Diego: Academic Press.

Crow, F. C. 1984. Summed-area tables for texture mapping. In H. Christiansen, ed., *Computer Graphics (SIGGRAPH '84 Proceedings),* 18:207–212.

Cychosz, J. M. 1986. Vectorized ray tracing of polygonal models. Unpublished results.

Dawkins, R. 1987. *The blind watchmaker.* New York: W. W. Norton.

DeGraf, B., and M. Wahrman. 1988. Mike the talking head. *Computer Graphics World,* 11(7):57.

Deussen, O., P. M. Hanrahan, B. Lintermann, R. Mech, M. Pharr, and P. Prusinkiewicz. 1998. Realistic modeling and rendering of plant ecosystems. *Proc. of SIGGRAPH '98,* 275–286.

Dippé, M. A. Z., and E. H. Wold. 1985. Antialiasing through stochastic sampling. In B. A. Barsky, ed., *Computer Graphics (SIGGRAPH '85 Proceedings),* 19:69–78.

Dobashi Y., K. Kaneda, H. Yamashita, T. Okita, and T. Nishita. 2000. *A simple, efficient method for realistic animation of clouds.* In K. Akeley, ed., *Proceedings of SIGGRAPH 2000, Computer Graphics Proceedings, Annual Conference Series,* 19–28.

DoCarmo, M. 1976. *Differential geometry of curves and surfaces.* Englewood Cliffs, NJ: Prentice Hall.

Drebin, R., L. Carpenter, and P. Hanrahan. 1988. Volume rendering. In John Dell, ed., *Computer Graphics (SIGGRAPH '88 Proceedings),* 22(4):65–74.

Dubuc, S., and R. Hamzaoui. 1994. On the diameter of the attractor of an IFS. C. R. Math Rep. Sci., Canada XVI 2, 3, 85–90.

Duff, T. 1985. Compositing 3-D rendered images. In B. A. Barsky, ed., *Computer Graphics (SIGGRAPH '85 Proceedings)*, 19:41–44.

Dungan, W., Jr. 1979. A terrain and cloud computer image generation model. In *Computer Graphics (SIGGRAPH '79 Proceedings)*, 13:143–150.

Ebert, D., and E. Bedwell. 1998. Implicit modeling with procedural techniques. *Proceedings Implicit Surfaces '98*, Seattle, WA.

Ebert, D., K. Boyer, and D. Roble. 1989. Once a pawn a foggy knight . . . [videotape]. *SIGGRAPH Video Review*, 54. New York: ACM SIGGRAPH, Segment 3.

Ebert, D., W. Carlson, and R. Parent. 1994. Solid spaces and inverse particle systems for controlling the animation of gases and fluids. *The Visual Computer*, 10(4):179–190.

Ebert, D., J. Ebert, and K. Boyer. 1990. Getting into art [videotape]. Department of Computer and Information Science, Ohio State University.

Ebert, D., J. Kukla, T. Bedwell, and S. Wrights. 1997. A cloud is born. *ACM SIGGRAPH Video Review*. SIGGRAPH '97 Electronic Theatre Program. New York: ACM SIGGRAPH.

Ebert, D., F. K. Musgrave, D. Peachey, K. Perlin, and S. Worley. 1994. *Texturing and modeling: A procedural approach*. Cambridge, MA: Academic Press.

Ebert, D. S. 1991. *Solid spaces: A unified approach to describing object attributes*. Ph.D. thesis, Ohio State University.

Ebert, D. S. 1997. Volumetric modeling with implicit functions: A cloud is born. In David Ebert, ed., *SIGGRAPH '97 Visual Proceedings*, ACM SIGGRAPH, 147.

Ebert, D. S., and R. E. Parent. 1990. Rendering and animation of gaseous phenomena by combining fast volume and scanline A-buffer techniques. In Forest Baskett, ed., *Computer Graphics (SIGGRAPH '90 Proceedings)*, 24:357–366.

Ekman, P., and W. Friesen. 1978. *Manual for the facial action coding system*. Palo Alto, CA: Consulting Psychologists Press.

Elinas, P., and W. Stürzlinger. 2000. Real-time rendering of 3D clouds. *Journal of Graphics Tools*, 5(4):33–45.

Etzmuss, O., B. Eberhardt, and M. Hauth. 2000. Implicit-explicit schemes for fast animation with particle systems. *Computer Animation and Simulation 2000,* 138–151.

Evertsz, C. J. G., and B. B. Mandelbrot. 1992. Multifractal measures. In H. O. Peitgen, H. Jürgens, and D. Saupe, eds., *Chaos and fractals,* New York: Springer-Verlag, Appendix B, 921–953.

Faigin, G. 1990. *The artist's complete guide to facial expression.* New York: Watson-Guptill.

Fedkiw, R., J. Stam, and H. Wann Jensen. 2001. Visual simulation of smoke. In E. Fiume, ed., *Proceedings of ACM SIGGRAPH 2001, Computer Graphics Proceedings, Annual Conference Series,* 15–22.

Feibush, E. A., M. Levoy, and R. E. Cook. 1980. Synthetic texturing using digital filters. In *Computer Graphics (SIGGRAPH '80 Proceedings),* 14:294–301.

Fidducia, C. M., and R. M. Mattheyses. 1982. A linear time heuristic for improving network partitions. *Proceedings of IEEE Design Automation Conference,* 175–181.

Foley, J. D., A. van Dam, S. K. Feiner, and J. F. Hughes. 1990. *Computer graphics: Principles and practice.* Systems Programming Series. Reading, MA: Addison-Wesley.

Foster, N., and D. Metaxas. 1982. Modeling the motion of a hot, turbulent gas. In Turner Whitted, ed., *SIGGRAPH '97 Conference Proceedings, Annual Conference Series,* New York: Addison-Wesley, 181–187.

Fournier, A. 1992. Normal distribution functions and multiple surfaces. *Graphics Interface '92 Workshop on Local Illumination,* 45–52.

Fournier, A., D. Fussell, and L. Carpenter. 1982. Computer rendering of stochastic models. *Communications of the ACM,* 25(6):371–384.

Fowler, D. R., P. Prusinkiewicz, and J. Battjes. 1992. A collision-based model of spiral phyllotaxis. *Computer Graphics* 26(2):361–368.

Fu, K. S., and S. Y. Lu. 1978. Computer generation of texture using a syntatic approach. In *Computer Graphics (SIGGRAPH '78 Proceedings),* 12:147–152.

Fuchs, H., Z. M. Kedem, and S. P. Uselton. 1977. Optimal surface reconstruction from planar contours. *Communications of the ACM,* 20(10):693–702.

Fusco, M. J., and S. Tice. 1993. Character motion systems course notes. *SIGGRAPH '93 Course Notes 01,* ACM SIGGRAPH, 9–22.

Gagalowicz, A., and S. D. Ma. 1985. Sequential synthesis of natural textures. *Computer Graphics, Vision and Image Processing,* 30:289–315.

Gallagher, R. S., and J. C. Nagtegaal. 1989. An efficient 3D visualization technique for finite element models and other course volumes. In J. Lane, ed., *Computer Graphics (SIGGRAPH '89 Proceedings),* 23:185–194.

Garber, D. D. 1981. *Computational models for texture analysis and texture synthesis.* Ph.D. thesis, University of Southern California.

Gardner, G. 1984. Simulation of natural scenes using textured quadric surfaces. In H. Christiansen, ed., *Computer Graphics (SIGGRAPH '84 Proceedings),* 18:11–20.

Gardner, G. 1985. Visual simulation of clouds. In B. A. Barsky, ed., *Computer Graphics (SIGGRAPH '85 Proceedings),* 19(3):297–304.

Gardner, G. 1990. Forest fire simulation. In F. Baskett, ed., *Computer Graphics (SIGGRAPH '90 Proceedings),* 24:430.

Garland, M., A. Willmott, and P. S. Heckbert. 2001. Hierarchical face clustering on polygonal surfaces. *Proceedings of Interactive 3D Graphics,* 49–58.

Gedzelman, S. D. 1991. Atmospheric optics in art. *Applied Optics,* 30(24):3514–3522.

Ghezzi, C., and M. Jazayeri. 1982. *Programming language concepts.* New York: Wiley.

Girard, M., and A. A. Maciejewski. 1985. Computational modeling for the computer animation of legged figures. In B. A. Barsky, ed., *Computer Graphics (SIGGRAPH '85 Proceedings),* 19:263–270.

Goehring, D., and O. Gerlitz. 1997. Advanced procedural texturing using MMX technology. Intel MMX technology application note. *http://developer.intel.com/software/idap/ resources /technical_collateral/mmx/proctex2.htm.*

Gonzalez, R. C., and R. E. Woods. 1992. *Digital image processing.* Reading, MA: Addison-Wesley.

Gordon, D., and R. A. Reynolds. 1985. Image space shading and 3-dimensional objects. *Computer Vision, Graphics, and Image Processing,* 29:361–376.

Greene, N. 1986. Applications of world projections. In M. Green, ed., *Proceedings of Graphics Interface '86,* 108–114.

Greene, N., and M. Kass. 1993. Hierarchical z-buffer visibility. *Proceedings of SIGGRAPH '93,* 231–240.

Grossmann, A., and J. Morlet. 1984. Decomposition of hardy functions into square integrable wavelets of constant shape. *SI AM Journal of Mathematics,* 15:723–736.

Haines, E. 1989. Essential ray tracing algorithms. In A. Glassner, ed., *An introduction to ray tracing,* Boston: Academic Press.

Haines, E., and S. Worley. 1993. Point-in-polygon testing. *Ray Tracing News,* 2:1. E-mail available under anonymous ftp from *weedeater.math.yale.edu.*

Hall, R. A. 1989. *Illumination and color in computer generated imagery.* New York: Springer-Verlag.

Hanrahan, P. 1990. Volume rendering. *SIGGRAPH '90: Course Notes on Volume Visualization.*

Hanrahan, P. 1999. Procedural shading (keynote). *Eurographics/SIGGRAPH Workshop on Graphics Hardware. http://graphics.stanford.edu/hanrahan/talks/rts1/slides.*

Hanrahan, P., and P. E. Haeberli. 1990. Direct WYSIWYG painting and texturing on 3D shapes. *Computer Graphics,* 24(4):215–223.

Hanrahan, P., and J. Lawson. 1990. A language for shading and lighting calculations. In F. Baskett, ed., *Computer Graphics (SIGGRAPH '90 Proceedings),* 24:289–298.

Harris, M. J. 2002. Real-time cloud rendering for games. *Games Developers Conference 2002 Proceedings.*

Harris, M. J., and A. Lastra. 2001. Real-time cloud rendering. *Computer Graphics Forum (Eurographics 2001 Proceedings),* 20(3):76–84.

Hart, J. C. 1992. The object instancing paradigm for linear fractal modeling. *Proceedings of Graphics Interface.* San Francisco: Morgan Kaufmann, 224–231.

Hart, J. C. 2001. Perlin noise pixel shaders. *Proceedings of the Graphics Hardware Workshop, Eurographics/SIGGRAPH,* 87–94.

Hart, J. C., N. Carr, M. Kameya, S. A. Tibbits, and T. J. Colemen. 1999. Antialiased parameterized solid texturing simplified for consumer-level hardware implementation. *1999 SIGGRAPH/Eurographics Workshop on Graphics Hardware,* 45–53.

Hart, J. C., and T. A. DeFanti. 1991. Efficient antialiased rendering of 3-D linear fractals. *Computer Graphics* 25(3).

Haruyama, S., and B. A. Barsky. 1984. Using stochastic modeling for texture generation. *IEEE Computer Graphics and Applications,* 4(3):7–19.

He, X. D., K. E. Torrance, F. X. Sillion, and D. P. Greenberg. 1991. A comprehensive physical model for light reflection. In T. W. Sederberg, ed., *Computer Graphics (SIGGRAPH '91 Proceedings),* 25:175–186.

Hearn, D., and M. P. Baker. 1986. *Computer graphics.* Englewood Cliffs, NJ: Prentice Hall.

Heckbert, P. S. 1986a. Filtering by repeated integration. In D. C. Evans and R. J. Athay, eds., *Computer Graphics (SIGGRAPH '86 Proceedings),* 20:315–321.

Heckbert, P. S. 1986b. Survey of texture mapping. *IEEE Computer Graphics and Applications,* 6(11):56–67.

Heidrich, W., and H.-P. Seidel. 1999. Realistic, hardware-accelerated shading and lighting. *Computer Graphics, Annual Conference Series (Proceedings of SIGGRAPH '99),* 171–178.

Hoehne, K. H., M. Romans, A. Pommert, and U. Tiede. 1990. Voxel based volume visualization techniques. *SIGGRAPH '90: Course Notes on Volume Visualization.*

Houze, R. 1993. *Cloud dynamics.* San Diego: Academic Press.

Inakage. M. Modeling laminar flames. 1991. *SIGGRAPH '91: Course Notes 27.*

Jaquays, P., and B. Hook. 1999. *Quake 3: Arena shader manual, revision 10.*

Kajiya, J. T. 1983a. New techniques for ray tracing procedurally defined objects. *ACM Transactions on Graphics,* 2(3):161–181.

Kajiya, J. T. 1983b. New techniques for ray tracing procedurally defined objects. In *Computer Graphics (SIGGRAPH '83 Proceedings),* 17(3):91–99.

Kajiya, J. T. 1985. Anisotropic reflection models. In B. A. Barsky, ed., *Computer Graphics (SIGGRAPH '85 Proceedings),* 19:15–21.

Kajiya, J. T. 1986. The rendering equation. In David C. Evans and Russell J. Athay, eds., *Computer Graphics (SIGGRAPH '86 Proceedings),* 20:143–150.

Kajiya, J. T., and T. L. Kay. 1989. Rendering fur with three dimensional textures. In Jeffrey Lane, ed., *Computer Graphics (SIGGRAPH '89 Proceedings)*, 23:271–280.

Kajiya, J. T., and B. P. Von Herzen. 1984. Ray tracing volume densities. In H. Christiansen, ed., *Computer Graphics (SIGGRAPH '84 Proceedings)*, 18:165–174.

Kalra, P., A. Mangili, N. Magnenat-Thalmann, and D. Thalmann. 1991. A multilayered facial animation system. In T. Kunii, ed., *Modeling in Computer Graphics*. New York: Springer-Verlag, 189–198.

Kameya, M., and J. C. Hart. 2000. Bresenham noise. *SIGGRAPH 2000 Conference Abstracts and Applications*, 182.

Karni, Z., and C. Gotsman. 2000. Spectral compression of mesh geometry. *Proceedings of SIGGRAPH 2000*, 279–286.

Karypis, G. 1999. Multi-level algorithms for multi-constraint hypergraph partitioning. Technical report #99–034, University of Minnesota.

Karypis, G., and V. Kumar. 1998. Multilevel algorithms for multi-constraint graph partitioning. *Proceedings of Supercomputing '98*.

Karypis, G., and V. Kumar. 1999. Multilevel *k*-way hypergraph partitioning. *Proceedings of IEEE Design Automation Conference*, 343–348.

Kautz, J., and M. D. McCool. 1999. Interactive rendering with arbitrary BRDFs using separable approximations. *Eurographics Rendering Workshop 1999*, 255–268.

Kay, T., and J. Kajiya. 1986. Ray tracing complex scenes. *Computer Graphics*, 20(4):269–278.

Kelley, K. W. 1988. *The home planet*. New York: Addison-Wesley.

Keppel, E. 1975. Approximating complex surfaces by triangulation of contour lines. *IBM Journal of Research and Development*, 19(1):2–11.

Kilgard, M. J. 2000. A practical and robust bump-mapping technique for today's GPUs. NVIDIA technical report.

Kim, T.-Y., and U. Neumann. 2001. Opacity shadow maps. *Proceedings of the Eurographics Rendering Workshop 2001*.

Kirk, D., and J. Arvo. 1991. Unbiased sampling techniques for image synthesis. *Computer Graphics*, 25(4):153–156.

Klassen, R. V. 1987. Modeling the effect of the atmosphere on light. *ACM Transactions on Graphics,* 6(3):215–237.

Kluyskens, T. 2002. Making good clouds. MAYA based QueenMaya magazine tutorial, *http://reality.sgi.com/tkluyskens aw/txt/tutor6.html.*

Kniss, J., G. Kindlmann, and C. Hansen. 2002. Multi-dimensional transfer functions for interactive volume rendering. *IEEE Transactions on Visualization and Computer Graphics.* To appear.

Kniss, J., S. Premože, C. Hansen, and D. Ebert. 2002. Interactive translucent volume rendering and procedural modeling. Submitted to *IEEE Visualization 2002.*

Knuth, D. 1973. *The art of computer programming: Sorting and searching.* Reading, MA: Addison-Wesley.

Koza, J. R. 1992. *Genetic programming.* Cambridge, MA: MIT Press.

Lastra, A., S. Molnar, M. Olano, and Y. Wang. 1995. Real-time programmable shading. *1995 Symposium on Interactive 3D Graphics,* 59–66.

Lee, A. W. F., W. Sweldens, P. Schröder, L. Cowsar, and D. Dobkin. 1998. MAPS: Multiresolution adaptive parameterization of surfaces. *Proceedings of SIGGRAPH '98,* 95–104.

Lee, M. E., R. A. Redner, and S. P. Uselton. 1985. Statisically optimized sampling for distributed ray tracing. In B. A. Barsky, ed., *Computer Graphics (SIGGRAPH '85 Proceedings),* 19:61–67.

Leech, J. 1998. OpenGL extensions and restrictions for PixelFlow. Technical Report UNC-CH TR98–019, University of North Carolina at Chapel Hill, Dept. of Computer Science.

Levoy, M. 1988. Display of surfaces from volume data. *IEEE Computer Graphics and Applications,* 8(3):29–37.

Levoy, M. 1990a. Efficient ray tracing of volume data. *ACM Transactions on Graphics,* 9(3):245–261.

Levoy, M. 1990b. A hybrid ray tracer for rendering polygon and volume data. *IEEE Computer Graphics and Applications,* 10(2):33–40.

Levoy, M. 1990c. Volume rendering by adaptive refinement. *The Visual Computer,* 6(1):2–7.

Levy, B., and J. L. Mallet. 1998. Non-distorted texture mapping for sheared triangulated meshes. *Proceedings of SIGGRAPH '98,* 343–352.

Lewis, J. P. 1984. Texture synthesis for digital painting. In H. Christiansen, ed., *Computer Graphics (SIGGRAPH '84 Proceedings),* 18:245–252.

Lewis, J. P. 1986. Methods for stochastic spectral synthesis. In M. Green, ed., *Proceedings of Graphics Interface '86,* 173–179.

Lewis, J. P. 1987. Generalized stochastic subdivision. *ACM Transactions on Graphics,* 6(3):167–190.

Lewis, J. P. 1989. Algorithms for solid noise synthesis. In J. Lane, ed., *Computer Graphics (SIGGRAPH '89 Proceedings),* 23(3):263–270.

Lindenmayer, A. 1968. Mathematical models for cellular interactions in development. *Journal of Theoretical Biology,* 18:280–315.

Lokovic, T., and E. Veach. 2000. Deep shadow maps. In K. Akeley, ed., *Proceedings of ACM SIGGRAPH 2000, Computer Graphics Proceedings, Annual Conference Series,* 385–392.

Lorensen, W. L., and H. L. Cline. 1987. Marching cubes: A high resolution 3D surface construction algorithm. In M. C. Stone, ed., *Computer Graphics (SIGGRAPH '87 Proceedings),* 21:163–169.

Lorensen, W. L., and H. L. Cline. 1990. *Volume modeling.* First Conference on Visualization on Biomedical Computing.

Lovejoy, S., and B. B. Mandelbrot. 1985. Fractal properties of rain and a fractal model. *Tellus,* 37A:209–232.

Lynch, D. K. 1991. Step brightness changes of distant mountain ridges and their perception. *Applied Optics,* 30(24):308–313.

Ma, S., and H. Lin. 1988. Optimal texture mapping. *Proceedings of Eurographics '88,* 421–428.

Maillot, J., H. Yahia, and A. Verroust. 1993. Interactive texture mapping. *Proceedings of SIGGRAPH '93,* 27–34.

Mallat, S. G. 1989a. Multifrequency channel decompositions of images and wavelet modeling. *IEEE Transactions on Acoustic Speech and Signal Processing,* 37(12):2091–2110.

Mallat, S. G. 1989b. A theory for multiresolution signal decomposition: The wavelet representation. *IEEE Transactions on Pattern Analysis and Machine Intelligence,* 11:674–693.

Mandelbrot, B. B. 1982. *The fractal geometry of nature.* New York: W. H. Freeman.

Maruya, M. 1995. Generating a texture map from object-surface texture data. *Computer Graphics Forum* 14(3):C-397–C-403.

Max, N. L. 1986. Light diffusion through clouds and haze. *Computer Vision, Graphics and Image Processing,* 33(3):280–292.

Max, N. L. 1994. Efficient light propagation for multiple anisotropic volume scattering. *Fifth Eurographics Workshop on Rendering,* Darmstadt, Germany, 87–104.

McCool, M., and E. Fiume. 1992. Heirarchical poisson disk sampling distributions. *Proceedings of Graphics Interface '92,* 94–105.

McCool, M. C., and W. Heidrich. 1999. Texture shaders. *1999 SIGGRAPH/Eurographics Workshop on Graphics Hardware,* 117–126.

Microsoft. 2001. Direct3D 8.0 specification. Available at *http://www.msdn.microsoft.com/directx.*

Milenkovic, V. J. 1998. Rotational polygon overlap minimization and compaction. *Computational Geometry: Theory and Applications,* 10:305–318.

Miller, G., and A. Pearce. 1989. Globular dynamics: A connected particle system for animating viscous fluids. *Computers and Graphics,* 13(3):305–309.

Miller, G. S. P. 1986. The definition and rendering of terrain maps. In D. C. Evans and R. J. Athay, eds., *Computer Graphics (SIGGRAPH '86 Proceedings),* 20(4):39–48.

Miller, G. S. P. 1988a. From wire-frames to furry animals. *Proceedings of Graphics Interface '88,* 135–145.

Miller, G. S. P. 1988b. The motion dynamics of snakes and worms. In J. Dill, ed., *Computer Graphics (SIGGRAPH '88 Proceedings),* 22:169–178.

Mine, A., and F. Neyret. 1999. Perlin textures in real time using OpenGL. Research report #3713, INRIA. *http://www-imagis.imag.fr/Membres/Fabrice.Neyret/publis/RR-3713-eng.html.*

Mitchell, D. 1987. Generating antialiased images at low sampling densities. *Computer Graphics,* 21(4):65–72.

Mitchell, D. 1991. Spectrally optimal sampling for distribution ray tracing. *Computer Graphics,* 25(4):157–164.

Mitchell, D. P., and A. N. Netravali. 1988. Reconstruction filters in computer graphics. In J. Dill, ed., *Computer Graphics (SIGGRAPH '88 Proceedings),* 22:221–228.

Miyata, 1990. A method of generating stone wall patterns. In F. Baskett, ed., *Computer Graphics (SIGGRAPH '90 Proceedings),* 24:387–394.

Molnar, S., J. Eyles, and J. Poulton. PixelFlow: High-speed rendering using image composition. *Computer Graphics,* 26(2):231–240.

Munkres, J. R. 1974. *Topology: A first course.* Englewood Cliffs, NJ: Prentice Hall.

Musgrave, F. K. 1988. Grid tracing: Fast ray tracing for height fields. Research Report, YALEU/DCS/RR 639. New Haven, CT: Yale University Dept. of Computer Science.

Musgrave, F. K. 1990. A note on ray tracing mirages. *IEEE Computer Graphics and Applications,* 10(6):10–12.

Musgrave, F. K. 1991. A random colormap animation algorithm. In J. Arvo, ed., *Graphics Gems II,* Boston: Academic Press.

Musgrave, F. K. 1993. *Methods for realistic landscape imaging.* New Haven, CT: Yale University.

Musgrave, F. K. 1994. *Methods for realistic landscape imaging.* Ph.D. thesis, Ann Arbor, Michigan, UMI Dissertation Services (Order Number 9415872).

Musgrave, F. K., C. E. Kolb, and R. S. Mace. 1989. The synthesis and rendering of eroded fractal terrains. In J. Eane, ed., *Computer Graphics (SIGGRAPH '89 Proceedings),* 23(3):41–50.

Musgrave, F. K., and B. B. Mandelbrot. 1989. Natura ex machina. *IEEE Computer Graphics and Applications,* 9(1):4–7.

Neyret, F. 1997. Qualitative simulation of convective cloud formation and evolution. *Eighth International Workshop on Computer Animation and Simulation,* Eurographics.

Nielson, G. M. 1991. Visualization in scientific and engineering computation. *IEEE Computer,* 24(9):58–66.

Nishimura, H., A. Hirai, T. Kawai, T. Kawata, I. Shirakawa, and K. Omura. 1985. Object modelling by distribution function and a method of image generation. *Journal of Papers Given at the Electronics Communication Conference '85,* J68-D(4). In Japanese.

Nishita, T., Y. Miyawaki, and E. Nakamae. 1987. A shading model for atmospheric scattering considering luminous intensity distribution of light sources. In M. C. Stone, ed., *Computer Graphics (SIGGRAPH '87 Proceedings)*, 21:303–310.

Nishita, T., E. Nakamae, and Y. Dobashi. 1996. Display of clouds and snow taking into account multiple anisotropic scattering and sky light. In H. Rushmeier, ed., *SIGGRAPH '96 Conference Proceedings, Annual Conference Series*, Reading, MA: Addison-Wesley, 379–386.

Nishita, T., T. Sirai, K. Tadamura, and E. Nakamae. 1993. Display of the earth taking into account atmospheric scattering. *Computer Graphics, Annual Conference Series*, 175–182.

Norton, A., A. P. Rockwood, and P. T. Skolmoski. 1982. Clamping: a method of antialiasing textured surfaces by bandwidth limiting in object space. In *Computer Graphics (SIGGRAPH '82 Proceedings)*, 16:1–8.

NVIDIA. 2001. Noise, component of the NVEffectsBrowser. Available at *http://www.nvidia.com/developer.*

Olano, M., and A. Lastra. 1998. A shading language on graphics hardware: The PixelFlow shading system. *Computer Graphics, Annual Conference Series (Proceedings of SIGGRAPH '98)*, 159–168.

OpenGL ARB. 1999. *OpenGL programming guide*, third edition. Reading, MA: Addison-Wesley.

OpenGL Architecture Review Board. 2002. OpenGL extension registry. Available at *http://oss.sgi.com/projects/ogl-sample/registry/.*

Oppenheim, A. V., and R. W. Schafer. 1989. *Discrete-time signal processing*. Englewood Cliffs, NJ: Prentice Hall.

Owens, J. D., W. J. Dally, U. J. Kapasi, S. Rixner, P. Mattson, and B. Mowery. 2000. Polygon rendering on a stream architecture. *SIGGRAPH/Eurographics Workshop on Graphics Hardware*, 23–32.

Paglieroni, D. W., and S. M. Petersen. 1994. Height distributional distance transform methods for height field ray tracing. *ACM Transactions on Graphics*, 13(4):376–399.

Pallister, K. 2002. Generating procedural clouds in real time on 3D hardware. *http://cedar.intel.com/software/idap/media/pdf/games/procedural_clouds.pdf.*

Parish, Y. I. H., and P. Müller. 2001. Procedural modeling of cities. *Proceedings of SIGGRAPH 2001*, 301–308.

Park, N. 1993. *The wrong trousers.* Aardmann Animation.

Park, N. 1996. Personal communication.

Parke, F. 1982. Parameterized models for facial animation. *IEEE Computer Graphics and Applications,* 2(9):61–68.

Parke, F., and K. Waters. 1996. *Computer facial animation.* Wellesley, MA: A. K. Peters.

Peachey, D. R. 1985. Solid texturing of complex surfaces. In B. A. Barsky, ed., *Computer Graphics (SIGGRAPH '85 Proceedings),* 19:279–286.

Pedersen, H. K. 1995. Decorating implicit surfaces. In *Computer Graphics (SIGGRAPH '95 Proceedings),* 291–300.

Pedersen, H. K. 1996. A framework for interactive texturing operations on curved surfaces. *Proceedings of SIGGRAPH '96,* 295–302.

Peercy, M. S., J. Airey, and B. Cabral. 1997. Efficient bump mapping hardware. *Proceedings of SIGGRAPH '97, Computer Graphics Proceedings, Annual Conference Series,* 303–306.

Peercy, M. S., M. Olano, J. Airey, and J. Ungar. 2000. Interactive multipass programmable shading. *Computer Graphics, Annual Conference Series (Proceedings of SIGGRAPH 2000),* 425–432.

Peitgen, H. O., H. Jürgens, and D. Saupe. 1992. *Chaos and fractals: New frontiers of science.* New York: Springer-Verlag.

Peitgen, H. O., and D. Saupe, eds. 1988. *The science of fractal images.* New York: Springer-Verlag.

Perlin, K. 1985. An image synthesizer. In B. A. Barsky, ed., *Computer Graphics (SIGGRAPH '85 Proceedings),* 19(3):287–296.

Perlin, K. 1992. A hypertexture tutorial. *SIGGRAPH '92: Course Notes 23.*

Perlin, K. 1995. Real time responsive animation with personality. *IEEE Transactions on Visualization and Computer Graphics,* 1(1):5–15.

Perlin, K. 1997. Layered compositing of facial expression. *ACM SIGGRAPH '97 Technical Sketch,* 226–227

Perlin, K. 2002. Improving noise. *Computer Graphics,* 35(3).

Perlin, K., and A. Goldberg. 1996. Improv: A system for scripting interactive actors in virtual worlds. *Computer Graphics,* 30(3):205–216.

Perlin, K., and E. M. Hoffert. 1989. Hypertexture. In J. Lane, ed., *Computer Graphics (SIGGRAPH '89 Proceedings),* 23:253–262.

Perlin, K., and F. Neyret. 2001. Flow noise. *SIGGRAPH Technical Sketches and Applications.*

Phong, B. 1975. Illumination for computer generated pictures. *Communications of the ACM,* 18(6):311–317.

Piponi, Dan, and George Borshukov. 2000. Seamless texture mapping of subdivision surfaces by model pelting and texture blending. In *Computer Graphics (SIGGRAPH 2000 Proceedings),* 471–477.

Pixar. 1989. *The RenderMan interface: Version 3.1.* San Rafael, CA: Pixar.

Pixar. 1999. Future requirements for graphics hardware. Memo (April 12).

Pixar. 2000. *The RenderMan interface: Version 3.2.* San Rafael, CA: Pixar.

Plath, J. 2000. Realistic modelling of textiles using interacting particle systems. *Computers and Graphics,* 24(6):897–905.

Porter, T., and T. Duff. 1984. Compositing digital images. In H. Christiansen, ed., *Computer Graphics (SIGGRAPH '84 Proceedings),* 18:253–259.

Potmesil, M., and E. M. Hoffert. 1989. The pixel machine: A parallel image computer. *Computer Graphics,* 23(3):69–78.

Poulin, P., and A. Fournier. 1990. A model for anisotropic reflection. In F. Baskett, ed., *Computer Graphics (SIGGRAPH '90 Proceedings),* 24:273–282.

Praun, E., A. Finkelstein, and H. Hoppe. 2000. Lapped textures. In *Computer Graphics (SIGGRAPH 2000 Proceedings),* 465–470.

Press, W. H., B. P. FLannery, S. A. Tenkolsky, and W. T. Vetterting. 1986. *Numerical recipes.* New York: University of Cambridge.

Proudfoot, K., W. R. Mark, S. Tzvetkov, and P. Hanrahan. 2001. A real-time procedural shading system for programmable graphics hardware. *Computer Graphics, Annual Conference Series (Proceedings of SIGGRAPH 2001),* 159.

Prusinkiewicz, P., M. James, and R. Mech. 1994. Synthetic topiary. *Computer Graphics, Annual Conference Series,* 351–358.

Prusinkiewicz, P., and A. Lindenmayer. 1990. *The algorithmic beauty of plants.* New York: Springer-Verlag.

Purcell, T. J., I. Buck, W. R. Mark, and P. Hanrahan. 2002. Ray tracing on programmable graphics hardware. *Computer Graphics, Annual Conference Series (Proceedings of SIGGRAPH 2002),* 703.

Reeves, W. T. 1983. Particle systems: A technique for modeling a class of fuzzy objects. *ACM Transactions on Graphics,* 2:91–108.

Reeves, W. T., and R. Blau. 1985. Approximate and probabilistic algorithms for shading and rendering structured particle systems. *Computer Graphics* 19:313–322.

Reeves, W. T., D. H. Salesin, and R. L. Cook. 1987. Rendering antialiased shadows with depth maps. In M. C. Stone, ed., *Computer Graphics (SIGGRAPH '87 Proceedings),* 21:283–291.

Reynolds, C. W. 1987. Flocks, herds, and schools: A distributed behavioral model. In M. C. Stone, ed., *Computer Graphics (SIGGRAPH '87 Proceedings),* 21:25–34.

Rhoades, J., G. Turk, A. Bell, U. Neumann, and A. Varshney. 1992. Real-time procedural textures. *1992 Symposium on Interactive 3D Graphics,* 25(2):95–100.

Rich, E. 1983. *Artificial intelligence.* New York: McGraw-Hill.

Rioux, M., M. Soucy, and G. Godin. 1996. A texture-mapping approach for the compression of colored 3D triangulations. *Visual Computer,* 12(10):503–514.

Rixner, S., W. J. Dally, U. J. Kapasi, B. Khailany, A. Lopez-Lagunas, P. R. Mattson, and J. Owens. 1998. A bandwidth-efficient architecture for media processing. *Proceedings of the 31st Annual International Symposium on Microarchitecture,* 3–13.

Rubin, S. M., and T. Whitted. 1980. A 3-dimensional representation for fast rendering of complex scenes. *Proceedings of SIGGRAPH '80,* 110–116.

Rushmeier, H. E., and K. E. Torrance. 1987. The zonal method for calculating light intensities in the presence of a participating medium. In M. C. Stone, ed., *Computer Graphics (SIGGRAPH '87 Proceedings),* 21:293–302.

Ruskai, M. B., ed. 1992. *Wavelets and their applications.* Boston: Jones and Bartlett.

Sabella, P. 1988. A rendering algorithm for visualizing 3D scalar fields. In J. Dill, *Computer Graphics (SIGGRAPH '88 Proceedings)*, 22:51–58.

Sakas, G. 1993. Modeling and animating turbulent gaseous phenomena using spectral synthesis. *The Visual Computer*, 9(4):200–212.

Salisbury, M. B., S. Anderson, R. Barzel, and D. Salesin. 1994. Interactive pen-and-ink illustration. *Computer Graphics Proceedings, Annual Conference Series*, 101–108.

Samek, M. 1986. Texture mapping and distortion in digital graphics. *The Visual Computer*, 2(5):313–320.

Sander, P. V., J. Snyder, S. J. Gortley, and H. Hoppe. 2001. Texture mapping progressive meshes. *Proceedings of SIGGRAPH 2001*, 409–416.

Saupe, D. 1988. Algorithms for random fractals. In H. O. Peitgen and D. Saupe, eds., *The science of fractal images*, New York: Springer-Verlag, 71–136.

Saupe, D. 1989. Point evaluation of multi-variable random fractals. In H. Juergen and D. Saupe, eds., *Visualisierung in Mathematik und Naturissenschaft-Bremer Computergraphik Tage 1988*, Heidelberg: Springer-Verlag.

Saupe, D. 1992. Random fractals in image synthesis. In P. Prusinkiewicz, ed., *Fractals: From Folk Art to Hyperreality, SIGGRAPH '92 Course Notes 12*.

Sayre, R. 1992. Antialiasing techniques. In A. Apodaca and D. Peachey, eds., *Writing RenderMan Shaders, SIGGRAPH '92 Course Notes 21*, 109–141.

Schacter, B. J. 1980. Long-crested wave models. *Computer Graphics and Image Processing*, 12:187–201.

Schacter, B. J., and N. Ahuja. 1979. Random pattern generation processes. *Computer Graphics and Image Processing*, 10:95–114.

Schlick, C. 1994. Fast alternatives to Perlin's bias and gain functions. In P. S. Heckbert, ed., *Graphics Gems* IV, volume IV, 401–403, Cambridge, MA: Academic Press Professional.

Schroeder, W. J., J. A. Zarge, and W. E. Lorensen. 1992. Decimation of triangle meshes. In E. E. Catmull, ed., *Computer Graphics (SIGGRAPH '92 Proceedings)*, 26(2):65–70.

Segal, M., and K. Akeley. 2001. The OpenGL graphics system: A specification, version 1.2.1. Available at *http://www.opengl.org/*.

Shannon, S. 1995. The chrome age: Dawn of virtual reality. *Leonardo,* 28(5):369–380.

Shirley, P. 1993. Monte Carlo simulation. *SIGGRAPH '92 Course Notes 18.*

Shoemake, K. 1991. Interval sampling. In J. Arvo, ed., *Graphics Gems II,* Boston: Academic Press, 394–395.

Sims, K. 1990. Particle animation and rendering using data parallel computation. In F. Baskett, ed., *Computer Graphics (SIGGRAPH '90 Proceedings),* 24:405–413.

Sims, K. 1991a. Artificial evolution for computer graphics. In T. W. Sederberg, ed., *Computer Graphics (SIGGRAPH '91 Proceedings),* 25(4):319–328.

Sims, K. 1991b. Interactive evolution of dynamical systems. *Proceedings of the European Conference on Artificial Life.* Paris: MIT Press.

Sims, K. 1994. Evolving virtual creatures. In Andrew Glassner, ed., *Computer Graphics (SIGGRAPH '94 Proceedings),* 15–22.

Skinner, R., and C. E. Kolb. 1991. Noise.c component of the Rayshade ray tracer.

Smith, A. R. 1984. Plants, fractals and formal languages. In H. Christiansen, ed., *Computer Graphics (SIGGRAPH '84 Proceedings),* 18:1–10.

Snyder, J. M., and A. H. Barr. 1987. Ray tracing complex models containing surface tessellations. *Computer Graphics* 21(4):119–128.

Stam, J. 1995. Multiple scattering as a diffusion process. *Eurographics Rendering Workshop.*

Stam, J. 1999. Stable fluids. In A. Rockwood, ed., *Proceedings of SIGGRAPH '99, Computer Graphics Proceedings, Annual Conference Series,* 121–128.

Stam, J., and E. Fiume. 1991. A multiple-scale stochastic modelling primitive. *Proceedings of Graphics Interface '91,* 24–31.

Stam, J., and E. Fiume. 1993. Turbulent wind fields for gaseous phenomena. In J. T. Kajiya, ed., *Computer Graphics (SIGGRAPH '93 Proceedings),* 27:369–376.

Stam, J., and E. Fiume. 1995. Depicting fire and other gaseous phenomena using diffusion processes. In R. Cook, ed., *SIGGRAPH '95 Conference Proceedings, Annual Conference Series,* Reading, MA: Addison-Wesley, 129–136.

Standler, B., and J. Hart. 1994. A Lipschitz method for accelerated volume rendering. *1994 Symposium on Volume Visualization.*

Stephenson, N. 1992. *Snow crash.* New York: Bantam Doubleday.

Sutherland, I. E. 1963. Sketchpad: A man-machine graphical communication system. *Proceedings of Spring Joint Computer Conference.*

Szeliski, R., and D. Tonnesen. 1992. Surface modeling with oriented particle systems. *Computer Graphics (Proceedings of SIGGRAPH '92),* 26(2):185–194.

Tadamura, K., E. Nakamae, K. Kaneda, M. Baba, H. Yamashita, and T. Nishita. 1993. Modeling and skylight and rendering of outdoor scenes. *Eurographics '93,* 12(3):189–200.

Thompson, D. 1942. *On growth and form.* Cambridge: University Press. Abridged edition (1961) edited by J. T. Bonner.

Thorne, C. 1997. Convert solid texture. Software component of Alias|Wavefront Maya 1.

3Dlabs. 2001. *OpenGL 2.0 shading language white paper, version 1.1.*

Todd, S., and W. Latham. 1993. *Evolutionary art and computers.* Boston, MA: Academic Press.

Tricker, R. 1970. *The science of the clouds.* Amsterdam: Elsevier.

Turk, G. 1991. Generating texures on arbitrary surfaces using reaction-diffusion. In T. W. Sederberg, ed., *Computer Graphics (SIGGRAPH '91 Proceedings),* 25:289–298.

Turk, G. 2001. Texture synthesis on surfaces. In *Computer Graphics (SIGGRAPH '01 Proceedings),* 347–354.

University of Illinois Department of Atmospheric Sciences. 2002. Cloud catalog. *http://ww2010.atmos.uiuc.edu/(Gh)/guides/mtr/cld/cldtyp/home.rxml.*

Upstill, S. 1990. *The RenderMan companion.* Reading, MA: Addison-Wesley.

Van Gelder, A., and K. Kim. 1996. Direct volume rendering with shading via 3D textures. *ACM/IEEE Symposium on Volume Visualization,* 22–30.

van Wijk, J. J. 1991. Spot noise-texture synthesis for data visualization. In T. W. Sederberg, ed., *Computer Graphics (SIGGRAPH '91 Proceedings),* 25:309–318.

Velho, L., K. Perlin, L. Ying, and H. Biermann. 2001. Procedural shape synthesis on subdivision surfaces. *Proc. Symposium on Computer Graphics and Image Processing (SIBGRAPI),* 146–153.

Voorhies, D. 1991. Space filling curves and a measure of coherence. In J. Arvo, ed., *Graphics Gems II,* Boston: Academic Press, 26–30.

Voss, R. 1983. Fourier synthesis of Gaussian fractals: Noises, landscapes, and flakes. *SIGGRAPH '83: Tutorial on State of the Art Image Synthesis,* 10.

Voss, R. F. 1988. Fractals in nature: From characterization to simulation. In H. O. Peitgen and D. Saupe, eds., *The science of fractal images,* New York: Springer-Verlag, 21–70.

Wann Jensen, H., and P. H. Christensen. 1998. Efficient simulation of light transport in scenes with participating media using photon maps. In M. F. Cohen, ed., *Proceedings of SIGGRAPH 98, Computer Graphics Proceedings, Annual Conference Series,* 311–320.

Ward, G. 1991. A recursive implementation of the Perlin noise function. In J. Arvo, ed., *Graphics Gems II,* 396–401. Academic Press Professional.

Waters, K. 1987. A muscle model for animating three-dimensional facial expression. In M. C. Stone, ed., *Computer Graphics (SIGGRAPH '87 Proceedings),* 21:17–24.

Wei, L.-Y., and M. Levoy. 2000. Texture synthesis using tree-structured vector quantization. In *Computer Graphics (SIGGRAPH 2000 Proceedings),* 479–488.

Wei, L.-Y., and M. Levoy. 2001. Texture synthesis over arbitrary manifold surfaces. In *Computer Graphis (SIGGRAPH '01 Proceedings),* 355–360.

Westover, L. 1990. Footprint evaluation for volume rendering. In F. Baskett, ed., *Computer Graphics (SIGGRAPH '90 Proceedings),* 24:367–376.

Williams, L. 1983. Pyramidal parametrics. *Computer Graphics,* 17(3):1–11.

Willis, P. J. 1987. Visual simulation of atmospheric haze. *Computer Graphics Forum,* 6(1):35–42.

Winston, P. H., and B. K. P. Horn. 1984. *LISP,* 2nd edition. Reading, MA: Addison-Wesley.

Witkin, A., and P. Heckbert. 1994. Using particles to sample and control implicit surfaces. In Andrew Glassner, ed., *Computer Graphics (SIGGRAPH '94 Proceedings),* 269–278.

Witkin, A., and M. Kass. 1991. Reaction-diffusion textures. In T. W. Sederberg, ed., *Computer Graphics (SIGGRAPH '91 Proceedings),* 25:299–308.

Worley, S. 1993. Practical texture implementation. *Procedural Modeling and Rendering Techniques Course Notes, ACM SIGGRAPH '93,* vol. 12.

Worley, S. 1996. A cellular texture basis function. *Proceedings of SIGGRAPH '96,* 291.

Worley, S., and J. Hart. 1996. Hyper-rendering of hyper-textured surfaces. *Implicit Surfaces '96.*

Wyvill, B., and J. Bloomenthal. 1990. Modeling and animating with implicit surfaces. *SIGGRAPH '90: Course Notes 23.*

Wyvill, B., C. McPheeters, and G. Wyvill. 1986. Data structure for soft objects. *The Visual Computer,* 2(4):227–234.

Wyvill G., B. Wyvill, and C. McPheeters. 1987. Solid texturing of soft objects. *IEEE Computer Graphics and Applications,* 7(4):20–26.

Yang, X. D. 1988. Fuzzy disk modeling and rendering of textured complex 3D surfaces of real objects. Technical Report, TR-88–414. New York: New York University.