

References

- Aaboe, A. (1964). *Episodes from the Early History of Mathematics*. New York: L. W. Singer.
- Abbott, E. A. (1991). *Flatland*, Princeton NJ: Princeton University Press.
- Adler, C. F. (1967). *Modern Geometry: An Integrated First Course*. New York: McGraw-Hill.
- Adler, I. (1966). *A New Look at Geometry*. New York: John Day Co.
- Adler, I. (1968). What shall we teach in high school geometry? *Mathematics Teacher* 61: 226–238.
- Albert, A. A., and Sandler, R. (1968). *An Introduction to Finite Projective Planes*. New York: Holt, Rinehart and Winston.
- Aleksandrov, A. D. (1969). Non-Euclidean geometry. In *Mathematics: Its Content, Methods, and Meaning*, Edited by A. D. Aleksandrov, A. N. Kolmogorov, and M. A. Lavrent'ev. Vol. 3, pp. 97–189. Cambridge, MA: M. I. T. Press.
- Anderson, I. (1974). *A First Course in Combinatorial Mathematics*. Oxford: Clarendon Press.
- Artzy, R. (1965). *Linear Geometry*. Reading, MA: Addison-Wesley.
- Audsley, W. J. (1968). *Designs and Patterns from Historic Ornament*. New York: Dover.

- Banchoff, T. F. (1990). Dimension. In *On the Shoulders of Giants*. Edited by Lynn Arthur Steen. National Academy Press, Washington DC.
- Barcellos, A. (1984). The fractal geometry of Mandelbrot. *College Mathematics Journal* 15: 98–114.
- Barker, S. F. (1964). *Philosophy of Mathematics*. Englewood Cliffs, NJ: Prentice-Hall.
- Barker, S. F. (1984). Non-Euclidean geometry. In *Mathematics: People, Problems, Results*. Edited by D. M. Campbell and J. C. Higgins. Vol. 2, pp. 112–127. Belmont, CA: Wadsworth.
- Barnsley, M. (1993). *Fractals Everywhere*, 2nd ed. San Diego, CA: Academic Press.
- Barnsley, M., and Hurd, L. (1993). *Fractal Image Compression*. Wellesley, MA: AK Peters, Ltd.
- Beck, A., Bleicher, M. N., and Crowe, D. W. (1972). *Excursions into Mathematics*. New York: Worth Publishers.
- Benedicty, M., and Sledge, F. R. (1987). *Discrete Mathematical Structures*. Orlando, FL: Harcourt Brace Jovanovich.
- Birkhoff, G. D. (1932). A set of postulates for plane geometry, based on scale and protractor. *Annals of Mathematics*, 33: 329–345.
- Blake, I. F., and Mullin, R. C.. (1975). *The Mathematical Theory of Coding*. New York: Academic Press.
- Blumenthal, L. (1961). *A Modern View of Geometry*. San Francisco: W. H. Freeman.
- Bold, B. (1982). *Famous Problems of Geometry and How to Solve Them*. New York: Dover.
- Borsuk, K. (1960). *Foundations of Geometry: Euclidean and Bolyai-Lobachevskian Geometry*, Amsterdam: North-Holland.
- Bourbaki, N. (1950). The architecture of mathematics, *American Mathematical Monthly* 57: 221–232.
- Boyer, C. B. (1956). *History of Analytic Geometry*. New York: Scripta Mathematica.
- Bronowski, J. (1974). The music of the spheres. In *The Ascent of Man*, pp. 155–187. Boston: Little, Brown.
- Bruck, R. H., and Ryser, H. J. (1949). The non-existence of certain finite projective planes. *Canadian Journal of Mathematics*. 1: 88–93.

- Bunde, A., and Havlin, S. (Eds.) (1994). *Fractals in Science* New York: Springer-Verlag.
- Burn, R. P. (1975). *Deductive Transformation Geometry*. Cambridge: Cambridge University Press.
- Caldwell, J. H. (1966). Chapter 11: The plane symmetry groups. In *Topics in Recreational Mathematics*. Cambridge, U.K.: Cambridge University Press.
- Cibes, M. (1990). The Sierpinski triangle: Deterministic versus random models. *Mathematics Teacher* 83: 617-21.
- Cipra, B. A. (1988). Computer search solves an old math problem. *Science* 242: 1507-1508.
- Copeland, R. (1979). *How Children Learn Mathematics: Teaching Implications of Piaget's Research*, 3rd ed. New York: Macmillan.
- Courant, R., and Robbins, H. (1941). *What Is Mathematics?* London: Oxford University Press.
- Coxeter, H. S. M. (1957). *Non-Euclidean Geometry*, 3rd ed. Toronto: University of Toronto Press.
- Coxeter, H. S. M. (1961). *The Real Projective Plane*, 2nd ed. Cambridge: Cambridge University Press.
- Coxeter, H. S. M. (1969). *Introduction to Geometry*, 2nd ed. New York: Wiley and Sons.
- Coxeter, H. S. M. (1987). *Projective Geometry*, rev. 2nd ed. New York: Springer-Verlag.
- Coxford, A. F., and Usiskin, Z. P. (1971). *Geometry: A Transformation Approach*. River Forest, IL: Laidlow Bros.
- Cromwell, P. R. (1997). *Polyhedra*. Cambridge, U.K.: Cambridge University Press.
- Crowe, D. (1986). *HiMAP Module 4: Symmetry, Rigid Motions, and Patterns*. Arlington, MA: COMAP.
- Crownover, R. M. (1995). *Introduction to Fractals and Chaos*, Boston: Jones & Bartlett.
- Darst, R., Palagallo, J., and Price, T. (1998). Fractal tilings in the plane. *Mathematics Magazine*, Vol. 71, No. 1: 12-23.
- Davis, D. M. (1993). *The Nature and Power of Mathematics*. Princeton, NJ: Princeton University Press.

- Devaney, R. L. (1990). *Chaos, Fractals, and Dynamics: Computer Experiments in Mathematics*. Menlo Park, CA: Addison-Wesley.
- Devaney, R. and Keen, L., (Eds.) (1989). *Chaos and Fractals: The Mathematics Behind the Computer Graphics*, Proceedings of Symposia in Applied Mathematics, Vol. 39, AMS.
- Devlin, K. (1994). *Mathematics: The Science of Patterns*. New York: Scientific American Library.
- Dewdney, A. K. Computer recreations. *Scientific American*, August 1985, December 1986, July 1987, November 1987, February 1989, May 1990.
- Dieudonné, J. (1981). The universal domination of geometry. *Two-year College Mathematics Journal* 12:227–231.
- Dodge, C. W. (1972). *Euclidean Geometry and Transformations*. Reading, MA: Addison-Wesley.
- Dorwart, H. (1966). *The Geometry of Incidence*. Englewood Cliffs, NJ: Prentice-Hall.
- Dubnov, I. A. (1963). *Mistakes in Geometric Proofs*. Boston: Heath.
- Eccles, F. M. (1971). *An Introduction to Transformational Geometry*. Menlo Park, CA: Addison-Wesley.
- Edgar, G. A. (1990). *Measure, Topology, and Fractal Geometry*, New York: Springer-Verlag.
- Edgerton, S. Y. (1975). *The Renaissance Rediscovery of Linear Perspective*, New York: Basic Books.
- Eglash, R. (1999). *African Fractals: Modern Computing and Indigenous Design*. New Brunswick NJ: Rutgers University Press.
- Eves, H. (1972). *A Survey of Geometry*, rev. ed. Boston: Allyn and Bacon.
- Eves, H. (1976). *An Introduction to the History of Mathematics*, 4th ed. New York: Holt, Rinehart and Winston.
- Ewald, G. (1971). *Geometry, An Introduction*. Belmont, CA: Wadsworth.
- Farmer, D. W. (1996). *Groups and Symmetry*, Vol. 5, Mathematical World. AMS.
- Faulkner, J. E. (1975). Paper folding as a technique in visualizing a certain class of transformations. *Mathematics Teacher* 68: 376–377.
- Feder, J. (1988). *Fractals*, New York: Plenum Press.

- Fehr, H. F., Eccles, F. M., and Meserve, B. E. (1972). The forum: What should become of the high school geometry course. *Mathematics Teacher* 65: 102ff.
- Fey, J. (Ed.) (1984). *Computing and Mathematics: The Impact on Secondary School Mathematics*. Washington, DC: NCTM.
- Fishback, W. T. (1964). *Projective and Euclidean Geometry*. New York: Wiley and Sons.
- Fisher, J. C. (1979). Geometry according to Euclid. *American Mathematical Monthly* 86: 260–270.
- Frøyland, J. (1994). *Introduction to Chaos and Coherence*, Philadelphia: Institute of Physics Publishing.
- Gallian, J. (1996). Error detection methods. *ACM Computing Surveys* 28(3): 504–517.
- Gans, D. (1955). An introduction to elliptic geometry. *American Mathematical Monthly* 62 (7, part II): 66–73.
- Gans, D. (1958). Models of projective and Euclidean space. *American Mathematical Monthly* 65: 749–756.
- Gans, D. (1969). *Transformations and Geometries*. New York: Appleton-Century-Crofts.
- Gans, D. (1973). *An Introduction to Non-Euclidean Geometry*. New York: Academic Press.
- Gardner, M. (1959). Euler's spoilers: The discovery of an order-10 Graeco-Latin square. *Scientific American* 201 (5): 181–188.
- Gardner, M. (1966). The persistent (and futility) of efforts to trisect the angle. *Scientific American* 214 (6): 116–122.
- Gardner, M. (1975). On tessellating the plane with convex polygon tiles. *Scientific American* 233 (1): 112–117.
- Gardner, M. (1978). The art of M. C. Escher. In *Mathematical Carnival*, Edited by M. Gardner, pp. 89–102. New York: Alfred A. Knopf.
- Gardner, M. (1981). Euclid's parallel postulate and its modern offspring. *Scientific American* 254(4): 23–24.
- Gardner, M. (1989). *Penrose Tiles to Trapdoor Ciphers*. New York: W. H. Freeman & Co.
- Garner, L. E. (1981). *An Outline of Projective Geometry*. New York: Elsevier/North-Holland.

- Gensler, H. J. (1984). *Gödel's Theorem Simplified*. Lanham, MD: University Press of America.
- Gleick, J. (1988). *Chaos: Making a New Science*, New York: Penguin.
- Golos, E. (1968). *Foundations of Euclidean and Non-Euclidean Geometry*. New York: Holt, Rinehart and Winston.
- Goldenberg, E. P. (1991). Seeing beauty in mathematics: Using fractal geometry to build a spirit of mathematical inquiry. *MAA Note: Visualization in Teaching and Learning Mathematics*, Washington, DC: MAA.
- Grabiner, Judith V. (1988). The centrality of mathematics in the history of western thought. *Mathematics Magazine* 61(4): 220–230.
- Gray, J. (1979). *Ideas of Space: Euclidean, Non-Euclidean, and Relativistic*. Oxford: Clarendon Press.
- Greenberg, M. (1980). *Euclidean and Non-Euclidean Geometries*, 2nd ed. San Francisco: W. H. Freeman.
- Gruenberg, K. W., and Weir, A. J. (1967). *Linear Geometry*. New York: Van Nostrand Reinhold.
- Grünbaum, B. (1981). Shouldn't we teach geometry? *Two-Year College Mathematics Journal* 12: 232–238.
- Grünbaum, B., and Shephard, G. C. (1987). *Tilings and Patterns*. New York: W. H. Freeman.
- Guggenheimer, H. W. (1967). *Plane Geometry and Its Groups*. San Francisco: Holden-Day.
- Haak, S. (1976). Transformation geometry and the artwork of M. C. Escher. *Mathematics Teacher* 69: 647–652.
- Hartshorne, R. (1967). *Foundations of Projective Geometry*. New York: W. A. Benjamin.
- Hastings, H., and Sugihara, G. (1993). *Fractals: A User's Guide for the Natural Sciences*, Oxford: Oxford University Press.
- Heath, T. L. (1921). *A History of Greek Mathematics*. Oxford: Clarendon Press.
- Heath, T. L. (1956). *The Thirteen Books of Euclid's Elements*, 2nd ed. New York: Dover.
- Henderson, L. D. (1983) *The Fourth Dimension and Non-Euclidean Geometry in Modern Art*. Princeton, NJ: Princeton University Press.

- Hilbert, D. (1921). *The Foundations of Geometry*, 2nd ed. Translated by E. J. Townsend. Chicago: Open Court Publishing Co.
- Hilbert, D., and Cohn-Vossen, S. (1952). *Geometry and the Imagination*, translated by P. Nemenyi. New York: Chelsea.
- Hoffer, W. (1975). A magic ratio recurs throughout history. *Smithsonian* 6(9): 110–124.
- Hofstadter, D. R. (1984). Analogies and metaphors to explain Gödel's theorem. In *Mathematics: People, Problems, Results*. Edited by D. M. Campbell and J. C. Higgins. Vol. 2, pp. 262–275. Belmont, CA: Wadsworth.
- Holmgren, R. A. (1996). *A First Course in Dynamical Systems*, 2nd ed., New York: Springer-Verlag.
- Hutchinson, J. E. (1981). Fractals and self similarity. *Indiana University Mathematics Journal*, Vol. 30, No. 5:713–747.
- Iaglom, I. M. (1962). *Geometric Transformations*, Vols. 1, 2, 3. Translated by Shields. New York: Random House.
- Ivins, W. M. (1964). *Art and Geometry: A Study in Space Intuitions*. New York: Dover.
- Jacobs, H. (1974). *Geometry*. San Francisco: W. H. Freeman,
- Jeger, M. (1969). *Transformation Geometry*. English version by A. W. Deicke and A. G. Howson. London: Allen & Unwin.
- Johnson, D. A. (1973). *Paper Folding for the Mathematics Class*. Washington, DC: NCTM.
- Johnston, B. L., and Richman, F. (1997). *Numbers and Symmetry: An Introduction to Algebra*. New York: CRC Press.
- Jones, O. (1986). *The Grammar of Ornament*. Ware England: Omega Books.
- Jürgens, H., Peitgen, H-O, and Saupe, D. (1990). The language of fractals. *Scientific American*, August 1990: 60–67.
- Kaplansky, I. (1969). *Linear Algebra and Geometry: A Second Course*. Boston: Allyn & Bacon.
- Kelly, P., and Matthews, G. (1981). *The Non-Euclidean Plane: Its Structure and Consistency*. New York: Springer-Verlag.
- Kennedy, H. C. (1972). The origins of modern axiomatics: Pasch to Peano. *American Mathematical Monthly* 79: 133–136.

- King, J., and Schattschneider, D. (1997). *Geometry Turned On! Dynamic Software in Learning, Teaching and Research*, MAA Notes 41. Washington, D.C.: MAA.
- Klein, F. (1897). *Famous Problems of Elementary Geometry*. Boston: Ginn & Company.
- Kline, M. (1963). *Mathematics: A Cultural Approach*. Reading, MA: Addison-Wesley.
- Kline, M. (1964). Geometry. In *Mathematics in the Modern World: Readings from Scientific American*, pp. 112–120. San Francisco: W. H. Freeman.
- Kline, M. (1968). Projective geometry. In *Mathematics in the Modern World: Readings from Scientific American*, pp. 120–127. San Francisco: W. H. Freeman.
- Kline, M. (1972). *Mathematical Thought from Ancient to Modern Times*. New York: Oxford University Press.
- Knorr, W. R. (1986). *The Ancient Tradition of Geometric Problems*. Boston: Birkhauser.
- Kolata, G. (1982). Does Gödel's theorem matter to mathematics? *Science* 218: 779–780.
- Lam, C. W. H. (1991). The search for a projective plane of order 10. *The American Mathematical Monthly* 98(4): 305–318.
- Lang, S., and Murrow, G. (1983). *Geometry: A High School Course*. New York: Springer-Verlag.
- Lauwerier, H. (1991). *Fractals: Endlessly Repeated Geometrical Figures*, Princeton NJ: Princeton University Press.
- Lieber, L. R. (1940). *Non-Euclidean Geometry: Or Three Moons in Mathesis*, 2nd ed. Brooklyn, NY: Galois Institute of Mathematics and Art.
- Lindquist, M. M., and Schulte, A. P. (1987). *Learning and Teaching Geometry, K-12:1987 Yearbook*, Washington, DC: NCTM.
- Lockwood, E. H., and Macmillan, R. H. (1978). *Geometric Symmetry*. Cambridge: Cambridge University Press.
- Lockwood, J. R., and Runion, G. E. (1978). *Deductive Systems: Finite and Non-Euclidean Geometries*. Reston, VA: NCTM.
- Lorenz E. (1993). *The Essence of Chaos*, Seattle, WA: University of Washington Press.
- MacGillavry, C. H. (1976). *Symmetry Aspects of M.C. Escher's Periodic Drawings*, 2nd ed. Utrecht: Bohn, Scheltema & Holkema.

- MacLane, S. (1959). Metric postulates for plane geometry. *American Mathematical Monthly* 66: 543–555.
- Mandelbrot, B. B. (1983). *The Fractal Geometry of Nature*. Rev. ed. New York: W. H. Freeman & Co.
- Mandelbrot, B. B. (1984). On fractal geometry and a few of the mathematical questions it has raised. *Proceedings of the International Congress of Mathematicians*, August 16–24 (1983):1661–1675. Warsaw: Polish Scientific Publishers.
- Martin, G. E. (1982a). *The Foundations of Geometry and the Non-Euclidean Plane*, corrected ed. New York: Springer-Verlag.
- Martin, G. E. (1982b). *Transformation Geometry: An Introduction to Symmetry*. New York: Springer-Verlag.
- Maxwell, E. A. (1961). *Fallacies in Mathematics*. Cambridge: Cambridge University Press.
- Maxwell, E. A. (1975). *Geometry by Transformations*. Cambridge: Cambridge University Press.
- Maziarz, E., and Greenwood, T. (1984). Greek mathematical philosophy. In *Mathematics: People, Problems, Results*. Edited by D. M. Campbell and J. C. Higgins. Vol. 1, pp. 18–27. Belmont, CA: Wadsworth.
- Meschkowski, H. (1964). *Non-Euclidean Geometry*, 2nd ed. Translated by A. Shenitzer. New York: Academic Press.
- Meserve, B. E. (1983). *Fundamental Concepts of Geometry*. New York: Dover.
- Mihalek, R. J. (1972). *Projective Geometry and Algebraic Structures*. New York: Academic Press.
- Mikami, Y. (1974). *The Development of Mathematics in China and Japan*, 2nd ed. New York: Chelsea.
- Moise, Edwin E. (1974). *Elementary Geometry from an Advanced Standpoint*, 2nd ed. Reading, MA: Addison-Wesley.
- Nagel, E., and Newman, J. R. (1956). Goedel's proof. In *The World of Mathematics* Edited by R. Newman. Vol. 3, pp. 1668–1695. New York: Simon and Schuster.
- O'Daffer, P. G., and Clemens, S. R. (1976). *Geometry: An Investigative Approach*. Menlo Park, CA: Addison-Wesley.
- Ogle, K. N. (1962). The visual space sense. *Science* 135: 763–771.

- Olson, A. T. (1975). *Mathematics Through Paper Folding*. Washington, DC: NCTM.
- Osserman, R. (1981). Structure vs. substance: The fall and rise of geometry. *Two-Year College Mathematics Journal* 12: 239–246.
- Pedoe, D. (1963). *An Introduction to Projective Geometry*. Oxford: Pergamon Press.
- Pedoe, D. (1970). *A Course of Geometry for Colleges and Universities*. Cambridge: Cambridge University Press.
- Pedoe, D. (1979). *Circles, A Mathematical View*. New York: Dover.
- Pedoe, D. (1983). *Geometry and the Visual Arts*. New York: Dover.
- Peitgen, H., and Saupe, D. (Eds.) (1988). *The Science of Fractal Images*. New York: Springer-Verlag.
- Peitgen, H., Jürgens, H., and Saupe, D. (1992). *Chaos and Fractals: New Frontiers of Science*. New York: Springer-Verlag.
- Peitgen, H., and Richter, P.H. (Eds.) (1986). *The Beauty of Fractals: Images of Complex Dynamical Systems*. New York: Springer-Verlag.
- Penna, M. A., and Patterson, R. R. (1986). *Projective Geometry and Its Applications to Computer Graphics*. Englewood Cliffs, NJ: Prentice-Hall.
- Penrose, R. (1978). The geometry of the universe. In *Mathematics Today: Twelve Informal Essays* Edited by L. A. Steen. pp. 83–125. New York: Springer-Verlag.
- Peterson, I. (1984). Ants in labyrinths and other fractal excursions. *Science News* 21: 42–43.
- Piaget, J., and Inhelder, B. (1967). *The Child's Conception of Space*. Translated by F. J. Langdon and J. L. Lunzer. New York: W. W. Norton.
- Pless, V. (1982). *Introduction to the Theory of Error-Correcting Codes*. New York: Wiley and Sons.
- Polya, G. (1971). *How to Solve It*, 2nd ed. Princeton, NJ: Princeton University Press.
- Radin, C. (1995). Symmetry and tilings. *Notices of the AMS*, 42(1): pp. 26–31.
- Ranucci, E. R. (1974). Master of tessellations: M. C. Escher, 1898–1972. *Mathematics Teacher* 67: 299–306.
- Ranucci, E. R., and Teeters, J. E. (1977). *Creating Escher-Type Drawings*. Palo Alto, CA: Creative Publications.

- Richardson, L. F. (1922). *Weather Prediction by Numerical Process*. Republished by Dover Publications (1965).
- Robertson, J. (1986). Geometric constructions using hinged mirrors. *Mathematics Teacher* 79: 380–386.
- Robinson, C. (1995). *Dynamical Systems: Stability, Symbolic Dynamics, and Chaos*, Ann Arbor, MI: CRC Press.
- Rodríguez-Iturbe, I. (1997). *Fractal River Basins: Chance and Self-Organization*. Cambridge: Cambridge University Press.
- Rosen, J. (1975). *Symmetry Discovered: Concepts and Application in Nature and Science*. Cambridge: Cambridge University Press.
- Ruelle, D. (1991). *Chance and Chaos*. Princeton, NJ: Princeton University Press.
- Ryan, P. J. (1986). *Euclidean and Non-Euclidean Geometry: An Analytic Approach*. Cambridge: Cambridge University Press.
- Sanders, W. J. and Dennis, J. R. (1968). Congruence geometry for junior high school. *Mathematics Teacher* 61: 354–369.
- Sawyer, W. W. (1971). *Prelude to Mathematics*. New York: Penguin Books.
- Schattschneider, D. (1978). The plane symmetry groups: Their recognition and notation. *The American Mathematical Monthly*, 85:439–450.
- Schattschneider, D. (1990). *M. C. Escher: Visions of Symmetry*. New York: W. H. Freeman and Company.
- School Mathematics Study Group (1965). *Geometry: Student's Text*, rev. ed. Pasadena, CA: A. C. Vroman.
- Seidenberg, A. (1962). *Lectures in Projective Geometry*. New York: Van Nostrand Reinhold.
- Senechal, M., and Fleck, G. (Eds.) (1988). *Shaping Space: A Polyhedral Approach*. Cambridge MA: Birkhäuser Boston.
- Singer, D. (1997). *Geometry: Plane and Fancy*. New York: Springer-Verlag
- Smart, J. R. (1998). *Modern Geometries*, 5th ed. Pacific Grove, CA: Brooks/Cole.
- Smith, D. E. (1958). *History of Mathematics*, Vol. 1. New York: Dover.
- Solow, D. (1982). *How to Read and Do Proofs*. New York: Wiley and Sons.
- Sommerville, D. (1970). *Bibliography of Non-Euclidean Geometry*, 2nd ed. New York: Chelsea.

- Steen, L. A. (1977). Fractals: A world of nonintegral dimensions. *Science News* 112: 122–123.
- Steen, L. A. (1980). Unsolved problems in geometry. *Mathematics Teacher* 73: 366–369.
- Steen, L. A. (Ed.) (1990). *On the Shoulders of Giants: New Approaches to Numeracy*. Washington, D.C.: National Academy Press.
- Stevenson, F. W. (1972). *Projective Planes*. San Francisco: W. H. Freeman.
- Stewart, I. (1987). The two-and-a-halfth dimension. *The Problems of Mathematics*. Oxford: Oxford University Press.
- Stewart, I. (1989). *Does God Play Dice? The Mathematics of Chaos*. Oxford: Blackwell.
- Stewart, I., and Golubitsky, M. (1993). *Fearful Symmetry: Is God A Geometer?* London: Penguin Books.
- Swetz, F. (1984). The evolution of mathematics in ancient China. In *Mathematics: People, Problems, Results*. Edited by D. M. Campbell and J. C. Higgins. Vol. 1, pp. 28–37. Belmont, CA: Wadsworth.
- Teeters, J. C. (1974). How to draw tessellations of the Escher type. *Mathematics Teacher* 67: 307–310.
- Thompson, T. M. (1983). *From Error-Correcting Codes Through Sphere Packings to Simple Groups*. The Carus Mathematical Monographs, No. 21. Ithaca, NY: MAA.
- Torretti, Roberto (1978). *Philosophy of Geometry from Riemann to Poincaré*. Dordrecht, Holland: D. Reidel Publishing Company.
- Trudeau, R. J. (1987). *The Non-Euclidean Revolution*. Boston: Birkhäuser.
- Tuller, A. (1967). *Modern Introduction to Geometries*. New York: Van Nostrand Reinhold.
- Veblen, O., and Bussey, W. H. (1906). Finite projective planes. *Translations of the American Mathematical Society* 7: 241–259.
- Washburn, D., and Crowe, D. (1988). *Symmetries of Culture: Theory and Practice of Plane Patterns Analysis*. Seattle: University of Washington Press.
- Watson, A. (1990). The mathematics of symmetry. *New Scientist* 17, October 1990: 45–50.
- Wegner, T., and Peterson, M. (1991). *Fractal Creations*. Mill Valley, CA: The Waite Group Press.

- Wenninger, M. (1966). *Polyhedron Models for the Classroom*. Washington, DC: NCTM.
- Wenninger, M. (1979). *Spherical Models*. Cambridge: Cambridge University Press.
- Weyl, H. (1989). *Symmetry*. Princeton: Princeton University Press. (Original copyright in 1952).
- Whitehead, A. N. (1971). *The Axioms of Projective Geometry*. Cambridge Tracts in Mathematics and Mathematical Physics, No. 4. New York: Hafner Publishing Co.
- Wolfe, H. E. (1945). *Introduction to Non-Euclidean Geometry*. New York: Holt, Rinehart and Winston.
- Wylie, C. R., Jr. (1964). *Foundations of Geometry*. New York: McGraw-Hill.
- Wylie, C. R., Jr. (1970). *Introduction to Projective Geometry*. New York: McGraw-Hill.
- Yale, P. B. (1968). *Geometry and Symmetry*. San Francisco: Holden-Day.
- Young, J. W. (1930). *Projective Geometry*. The Carus Mathematical Monographs, No. 4. Chicago: Open Court Publishing Co. (for the MAA).
- Zage, W. M. (1980). The geometry of binocular visual space. *Mathematics Magazine* 53: 289-294.
- Zirakzadeh, A. (1969). A model for the finite projective spaces with three points on every line. *American Mathematical Monthly* 76: 774-778.