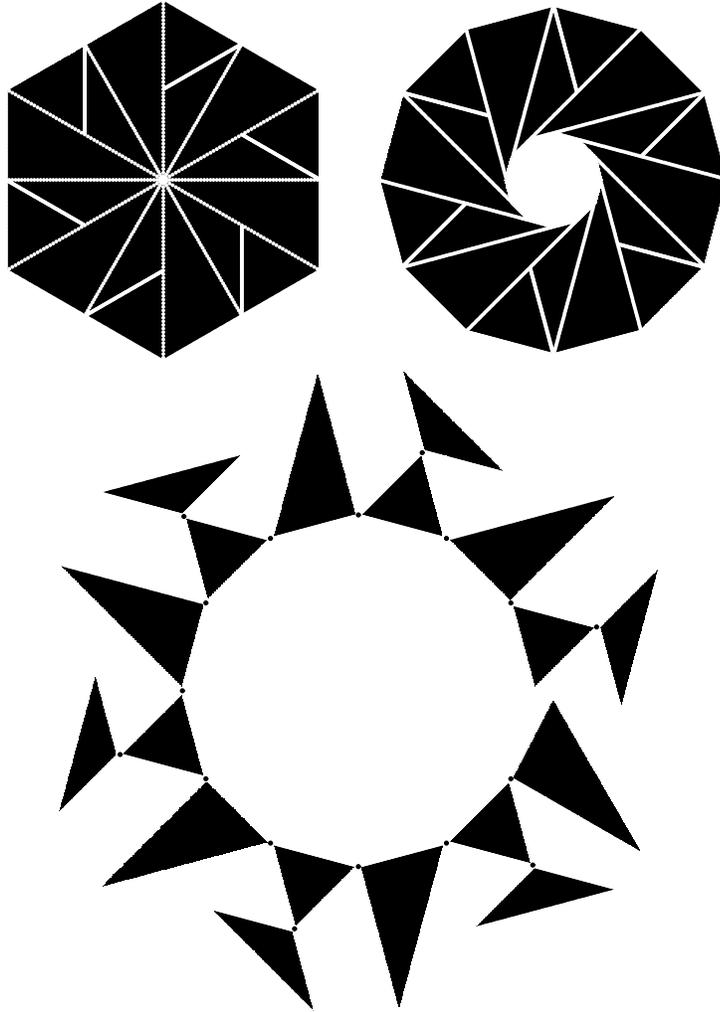


Ernest Irving Freese's *Geometric Transformations*:
The Man, the Manuscript, the Magnificent Dissections!



Greg N. Frederickson

A more detailed listing of Ernest I. Freese's Publications

Freese published over 150 articles, on a wide range of topics, with one series of articles leading to a book! It might seem unusual to include such a long list of articles here, but the list gives the reader an appreciation of Freese's energy, audacity, and breadth. It exemplifies the initiative and adventure that characterized much of his life. To shorten the length of the following entries, I choose a notation with colons, namely *volume: number: page*, to indicate volume, number, pages, when that information is available. Also, I group all articles from a given periodical together, grouping the periodicals by general area, and ordering the periodicals in each group roughly by time period.

Motorcycling

- "The lively log of a roving hen, part 1, The first cruise," 9:9:31,33,35, Aug. 31, 1914.
- "The lively log of a roving hen, part 2, Honolulu days," 9:10:21,23,25, Sept. 7, 1914.
- "Motorcycle arithmetic," 9:10:25, Sept. 1914.
- "The lively log of a roving hen, part 3, That tantalizing Tantalus," 9:11:22-24, Sept. 14, 1914.
- "Speedometers and tire inflation," Oct. 1914.

Pacific Motorcyclist

- "Measurement of grades," March 1915.

Motorcycle & Bicycle Illustrated

- "Scouting for the spice o' life," Jan. 1915.
- "Awheel in the land of all-summer," May 1915.
- "How steep is that hill?," May 1915.
- "The 'aviators'," Jan. 1917.
- "Farthest yet," Apr. 25, 1918.

Motorcycling and Bicycling

- "A year's reckoning," Jan. 1915.
- "From fish to 'Frisco," Apr. 13, 1918.
- "Nineteen Napoleans and one Waterloo," Apr. 27, 1918.
- "On the 'Rim o' the World'," June 1918.
- "Motorcycling down the 'Kink's Highway'," July 27, 1918.
- "Jinxes and jazz and the jazzical jinx," Oct. 12, 1918.
- "Motorbike hoboos," Oct. 19, 1918.
- "Seein' is believin'," Nov. 23, 1918.

Outing

“Hunting the shark,” 72:6:375-376, Sept. 1918.

Art and Archaeology

“Hawaiian houses of other days,” 8:4:215-223, Aug. 1919.

“Housekeeping in primitive Hawaii,” 12:5:205-210, Nov. 1921.

“A forgotten craft of old Hawaii,” 17:1 and 2:63-66, Jan.-Feb. 1924.

House Beautiful

“Fires and fireplaces,” 36:6:166-171, Nov. 1914.

“The basement and foundation,” 37:6:192-195 and xxvii, May 1915.

“The house of timber,” 38:4:117-119, Sept. 1915.

Bungalow Magazine

“Built for two,” Feb. 1916.

“Chimneyless bungalows of Honolulu,” Apr. 1916.

Building

“American methods,” Apr. 12, 1916.

House and Garden

“Good floors,” 29:1:18-19 and 56, Jan. 1916.

“How do your rooms face?,” 30:1:15 and 62 July 1916.

“Shingles, masonry, or stucco?,” 30:1:22-23 July 1916.

“Weatherproof walls for the timber house,” 31:2:55, 72, and 74,
Feb. 1917.

“The making of easy stairs,” 33:1:49 and 60, Jan. 1918.

“The roof that is made of shingles,” 33:6:44 and 60, June 1918.

Keith's Magazine

“The roof of slate,” May 1918.

Metal Worker, Plumber & Steam Fitter

“How steep should the roof be?,” 30:10:277-278, Sept. 6, 1918.

Everyday Engineering

“Cutting the ‘pie’,” 6:2:79-80, Nov. 1918.

“How to ‘scale’ an area,” 6:3:135-137,144,146, Dec. 1918.

“How to weight steel by arithmetic,” 6:5:230-231, Feb. 1919.

National Builder

- “How to build an open-raftered cornice,” 60:11:44-47, Nov. 1918.
- “Base courses and water tables,” 60:12:46,49-55, Dec. 1918.
- “Weather-tight window frames,” 61:2:46-49, Feb. 1919.
- “Preventing the leaks,” 61:4:40-42, Apr. 1919.
- “Silent plumbing,” 62:6:29, June 1919.
- “The strength and fitness of floors and ceilings,” July 1919.

Building Age

- “How to construct double hung windows,” 40:7:336-339, July 1918.
- “How steep should the roof be?,” 40:8:403, Aug. 1918.
- “How to use steel in timber framing,” 41:1:13-15, Jan. 1919.
- “How to construct casement windows,” 41:2:63-67, Feb. 1919.
- “How to best construct door[s] and doorways,” 41:3:86-89, March 1919.
- “Designing fitch-plate girders economically,” 41:5:152, May 1919.
- “Clay tile makes a picturesque roof,” 41:6:187-188, June 1919.
- “Forms for concrete footings and foundation walls,” 41:6:202-203,208,
June 1919.
- “Mixing and placing concrete,” 41:7:237-238, July 1919.
- “Building concrete foundations,” 41:8:250-251, Aug. 1919.
- “Using concrete to best advantage for foundation walls,” 41:10:317-319,
Oct. 1919.
- “Quick method of calculating strength of timber post, struts or columns,”
41:11:355-356, Nov. 1919.
- “Economical design of timber beams,” 41:12:389,394, Dec. 1919.
- “Calculating the size of timber beams and steel girders,” 42:8:48-52,
Aug. 1920.

Architect and Engineer of California

- “The pardonable sin,” 29:3:99, June 1912.
- “A bungle-ode,” 52:3:69-71, March 1918.
- “The roof over your head - Shall it be of shingles, slate or tile?,”
54:1:81-86, July 1918.
- “The small brick house,” 55:3:53-?, Dec. 1918.
- “The beginning of wisdom,” 64:2:105, Feb. 1921.
- “The big idea in home design,” 73:1:??, Apr. 1923.
- “House planning by the compass,” 77:3:??, June 1924.
- “The 3% bribe,” Aug. 1925.
- “Architect opposed to patch-work,” 115:2:54, Nov. 1933.
- “Tumbling home, a newly invented mathematical curve,”
116:1:21-23, Jan. 1934.

California Home Owner

- “An ideal English design,” Aug. 1923.
 “The house that I like,” Sept. 1923.
 “A homey wooden house,” Oct. 1923.
 “The home in colonial style,” Nov. 1923.
 “A bit of old Spain,” Dec. 1923.
 “A big small house,” 2:1:11, Jan. 1924.
 “A double dwelling,” 2:2:, Feb. 1924.
 “English with half-timbered effect,” 2:3:, March 1924.
 “Clay tile...the roof of the ages!,” 2:4:137, Apr. 1924.
 “A four-family dwelling,” 2:4:133, Apr. 1924.
 “The house with a room outdoors,” 2:5:170, May 1924.
 “The bungalow court as an investment,” 2:6:203, June 1924.
 “A three-room double house,” 2:6:208, June 1924.
 “A house by the side of the road,” 2:7:245, July 1924.
 “The spell of Italy,” 2:8:278, Aug. 1924.
 “A six-room house with two fronts,” 2:9:, Sept. 1924.
 “A snug little house for four thousand dollars,” 2:10:, Oct. 1924.
 “A happy house of five rooms,” 2:11:371, Nov. 1924.
 “La casa Espanola,” 2:12:396, Dec. 1924.
 “The English domestic type house,” 3:1:9, Jan. 1925.
 “Comfortable and convenient,” 3:4:8, Feb. 1925.
 “A house without a name,” 3:5:11, March 1925.
 “From out of the old Southwest,” 3:6:8, Apr. 1925.
 “Dollars versus delusions,” 3:7:11, May 1925.
 “A big house for a little lot,” 3:8:10, June 1925.
 “Stepping down the hill,” 3:9:13, July 1925.
 “A cottage from New England,” 3:10:9, Aug. 1925.
 “An eight-room Rambler,” 3:10:15, Aug. 1925.
 “House planning by the compass,” 3:11:7, Sept. 1925.

Southwest Builder & Contractor

- “A flaw in the flexural formula of reinforced concrete,” Jan. 8, 1926.

Western Construction News

- “Squaring the circle,” 5:19:497, Oct. 10, 1930.

Los Angeles Times

- “Will it come to this?” (cartoon), 1912.
 “Hollow-tile residence to be erected for R. E. Overell,” p. V2,
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 “Coziness featured here,” p. F8, Sept. 20, 1925.

- “English Cottage Type,” p. E8, Sept. 27, 1925.
- “Spanish Stucco Dwelling,” p. F10, Oct. 4, 1925.
- “Distinctly English Type,” p. F8, Oct. 11, 1925.
- “New Spanish Design,” p. E10, Nov. 15, 1925.
- “Old Mexico ‘Adobe’ design,” p. E10, Nov. 22, 1925.
- “Typical days of old Spain,” p. E10, Nov. 29, 1925.
- “Designed for economy’s cause,” p. E10, Dec. 6, 1925.
- “English-Colonial Model,” p. E8, Dec. 13, 1925.
- “Simple Corner-Lot Dwelling,” p. E8, Dec. 20, 1925.
- “Bureau plans cozy dwelling,” p. E5, Feb. 24, 1929.
- “Convenient house plan,” p. A10, Dec. 29, 1935.
- “Economical plan told,” p. 13, Jan. 12, 1936.
- “Floor area well used,” p. E4, Feb. 2, 1936.
- “Balance in house plan,” p. E4, March 8, 1936.

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- “Straight line figures,” 10:25-31, Jan. 1929.
- “Curved line figures,” 10:89-100, Feb. 1929.
- “Expedients,” 10:172-179, March 1929.
- “Enlargements, reductions, domes, foregrounds, interiors,”
10:306-315, May 1929.
- “The author’s drafting room method,” 10:453-462, July 1929.

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- “Manipulation and layout,” 10:681-689, Oct. 1929.
- “Technique of linear projection,” 10:761-770, Nov. 1929.
- “Projection of inherent obliques,” 10:839-847, Dec. 1929.
- “Realm of the sliding triangles,” 11:23-29, Jan. 1930.
- “Some detective work,” 11:101-110, Feb. 1930.
- “Just touching on the circle,” 11:176-187, March 1930.
- “Principles and properties of scales,” 11:277-287, Apr. 1930.
- “Drafting-scale techniques,” 11:331-343, May 1930.
- “More drafting-scale techniques,” 11:526-535, July 1930.
- “Lines akimbo,” 11:711-720, Sept. 1930.
- “Plotting of extraneous angles,” 11:863-871, Nov. 1930.
- “The subjugation of the circle,” 12:24-35, Jan. 1931.

- “Applied cyclometry,” 12:89-99, Feb. 1931.
- “Circles without centers,” 12:267-276, Apr. 1931.
- “Geomathematics of the circle,” 12:505-516, July 1931.
- “More geomathematics,” 12:587-597, Aug. 1931.
- “At the swing of the compass,” 12:825-835, Nov. 1931.
- “Circles at right angles,” 13:315-323, May 1932.
- “Organizing the orthogonals,” 13:561-570, Aug. 1932.
- “Some short cuts with the triangles,” 13:793-801, Dec. 1932.

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- “Kindergarten stuff,” 12:545 July, 1931.
- “How to draw circle-on-circle arches,” 12:627, Aug. 1931.
- “How to develop a cylindrical arch for a circular wall,” 12:708, Sept. 1931.
- “How to develop a radiant arch for a circular wall,” 12:781-787, Oct. 1931.
- “Exact trisection of an angle,” 12:855, Nov. 1931.
- “Turning the ‘Trick’,” 12:937, Dec. 1931.
- “A simple tracery layout and a ‘brain teaser’,” 13:66, Jan. 1932.
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- “Some graphical cyclometry,” 13:205, March 1932.
- “Turning another ‘trick’ with perspective projection,” 13:447-449, June 1932.

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- “Letter from Ernest Irving Freese,” Aug. 1929.
- “Educating the layman (letter to Ralph Reinhold),” March 1930.
- “Photograph,” 11:224, March 1930.
- “Autobiography,” 11:224, March 1930.
- “Design for a gasoline filling station,” 11:848, Oct. 1930.
- “Why is a pentagon,” July 1931.
- “Word on the involute arch,” 16:141, March 1935.

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- “Short cuts to accurate calculations,” 118:2336:416-418, Sept. 19, 1920.
- “Correct proportioning of stair treads and risers,” 143:47, July, 1933.
- “How to design practical curved driveways,” 143:2619:33-38, Sept. 1933.
- “More about stair rules,” Sept. 1933.
- “Walkways,” stairways, climbways, 144::45-48, March 1934.
- “Geometry of the human figure,” 145::57-60, July 1934.
- “Pathways of the sun,” 145::46-50, Nov. 1934.

“Pathways of the sun (discussion),” Jan. 1935.

“Time saver standards 38: Dimensions of the human figure,”
148:2642:90-91, Feb. 1936.

“Time saver standards 45: Driveways ... basic principles & design,”
148:2645:84-85, May 1936.

“Time saver standards 46: Driveways – circles, back-arounds, junctions,”
148:2645:86-87, May 1936.

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“Time saver standards 55: Stairs – treads and riser data,”
149:2648:88-89, Aug. 1936.

“Time saver standards 63: Ladders and pedestrian ramps,”
149:2650:94-95, Oct. 1936.

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“Spans and spacings ... floor loads only,” Sept. 29, 1939.

“Spans and spacings ... roof loads only,” Oct. 20, 1939.

“Spans and spacings ... tar-and-gravel roof,” Nov. 17, 1939.

“Factors controlling ... ,” Jan. 19, 1940.

“Weight of roofing ... ,” Feb. 16, 1940.

“Structural design ... ,” March 15, 1940.

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“A discussion of suspended ... ,” May 17, 1940.

“Structural design ... ,” June 21, 1940.

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“Earthquake-proof & fireproof school,” March 15, 1934.

“Close the schools!,” Jan. 26, 1934.

“Freese answers quake letters,” Feb. 8, 1934.

“The deadly parallel,” Feb. 9, 1934.

“Freese forecasts defeat of \$29,411,497 bonds,” Feb. 16, 1934.

“Close schools, Freese urges,” March 30, 1934.

“Why the recall?,” Sept. 21, 1934.

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