

"Bibliography of W.G. Cady," Biographical file of Walter G. Cady, American Institute of Physics, Niels Bohr Library & Archives, College Park, MD 20740, USA.

BIBLIOGRAPHY OF W. G. CADY

Entries are in chronological order. They are mostly regular articles or books in the field of physics. A few abstracts of papers delivered at meetings are included for historical reasons.

The list includes some articles, mostly popular, on other subjects.

Reviews of books and articles are not included.

1. Volume Measurement of an Air Thermometer Bulb. Am. J. Sci. 2, 341-342 (1896); also in Phil. Mag. 42, 530-532 (1896).
2. Ueber die Energie der Kathodenstrahlen. Abh. deut. physik. Ges. 1, 181-192, (1899).
3. Ueber die Energie der Kathodenstrahlen. Ph.D. Thesis, Univ. of Berlin, 1900, 41 pp.
4. Ueber die Energie der Kathodenstrahlen. Ann. Physik 1, 678-699 (1900).
5. On the Energy of the Cathode Rays. Am. J. Sci. 10, 1-13 (1900).
6. A Direct-recording Magnetic Variometer. J. Terrestrial Mag. 9, 69-80 (1904).
7. A Machine for Compounding Sine Curves. Science 23, 877-881 (1906).
8. The Iron Arc. Nature 74, 443-444 (1906).
9. A Direct-recording Declinograph. J. Terrestrial Mag. 11, 145-152 (1906).
10. Ein magnetischer Deklinograph mit Selbsttätiger Aufzeichnung. Physik. Z. 7, 710-713 (1906).

11. The Magnetite Arc. Electrician 58, 816 (1907).
12. Ein magnetischer Deklinograph mit Selbsttätiger Aufzeichnung. Der Machaniker 25, 133-137 (1907).
13. On the Electric Arc between Metallic Electrodes; (with H.D. Arnold) Am. J. Sci. 24, 383-411 (1907); also in Physik. Z. 8, 890-906 (1907).
14. On the Electric Arc between Metallic Electrodes. II. Theory and Production of Oscillations between Arc and Glow. Am. J. Sci. 28, 89-102 (1909); also in Physik. Z. 10, 569-576 (1909).
15. On the Electric Arc between Metallic Electrodes. III. The Properties of Glow-Arc Oscillations. Am. J. Sci. 28, 239-250 (1909); also in Physik. Z. 10, 623-630 (1909).
16. Color Dispersion in the Astigmatic Eye. Science 34, 26-28 (1911).
17. Isolierte Doppelklemmen. Physik. Z. 12, 1254-1255 (1911).
18. Some Experiences with a Bird Nursery. Bird Lore 13, 318-321 (1911).
19. Note on the Screech Owl. Bird Lore 14, 231 (1912).
20. A Bicycle Ergometer with an Electric Brake. (By F.G. Benedict and W.G. Cady) Carnegie Institution of Washington, Washington, D.C., Publication No. 167, 1912, 44 pp.

21. Die Magnetische Reaktion einer zwischen den Polen eines Magnets kreisender Kupferscheibe. Physik. Z. 13, 920-930 (1912).
22. Why the Wheels Turn Backward. St. Nicholas Mag. 40, 1136-1137 (1913).
23. Ueber einige Erscheinungen an der Anode bei Gasentladungen. Physik. Z. 14, 296-302 (1913).
24. Rotations in the Iron Arc. Phys. Rev. 2, 249-269 (1913).
25. Experiments with an Indoor Aerial. Wireless Age 4, 116-118 (1916).
26. Unstable States in Arc and Glow. Metall. and Chem. Eng. 13, 866-869 (1915); also in Trans. Am. Electrochem. Soc. 29, 593-604 (1916).
27. The Demonstration of Phase Difference. Electrician 83, 20 (1919).
28. The Piezoelectric Resonator. Phys. Rev. 17, 531 (1921) (abst.).
29. New Methods for Maintaining Constant Frequency in High-frequency Circuits. Phys. Rev. 18, 142-143 (1921)(abst.).
30. Use of Carborundum for Ruling Test Plates. Nature 108, 370 (1921).
31. Theory of Longitudinal Vibrations of Viscous Rods. Phys. Rev. 19, 1-6 (1922); also in Memorial de l'Artillerie Française, Paris, 1924.
32. The Piezoelectric Resonator. Proc. Inst. Radio Engrs. 10, 83-114 (1922).

33. A Method of Testing Plates from Piezoelectric Crystals. J. Opt. Soc. Am. and Rev. Sci. Instr. 6, 183-185 (1922).
34. Piezoelectrically-driven Tuning Forks and Rods. Phys. Rev. 21, 371-372 (1923).
35. An International Comparison of Radio Wavelength Standards by Means of Piezoelectric Resonators. Proc. Inst. Radio Engrs. 12, 805-816 (1924).
36. The Quartz Crystal as a New Wavelength Standard. Popular Radio 7, 357-365 (1924).
37. Piezoelectric Standards of High Frequency. J. Opt. Soc. Am. and Rev. Sci. Instr. 10, 475-489 (1925).
38. Bibliography on Piezoelectricity. Proc. Inst. Radio Engrs. 16, 521-535 (1928).
39. Electroelastic and Pyroelectric Phenomena. International Critical Tables, Vol. 6, McGraw-Hill Book Co., New York, 1929; Also in Proc. Inst. Radio Engrs. 18, 1247-1262 (1930), and J. Appl. Phys. (Moscow) 7, 109-122 (1930).
40. Piezoelectric Terminology. Proc. Inst. Radio Engrs. 18, 2136-2142 (1930).
41. Oscillateur à Quartz avec Contrôle Optique. Vol. 11, Internat. Elec. Congress, 9th Sec., pp. 40-48, Paris, 1932; also in Elektrotech. und Maschinenbau 50, 652 (1932).

42. The Application of Methods of Geometrical Inversion to the Solution of Certain Problems in Electrical Resonance. Proc. Am. Acad. Arts Sci. 68, 383-409 (1933).
43. The Potential Distribution between Parallel Plates and Concentric Cylinders due to any Arbitrary Distribution of Space Charge. Physics 6, 10-13 (1935).
44. The Piezoelectric Resonator and the Effect of Electrode Spacing upon Frequency. Physics 7, 237-259 (1936).
45. The Longitudinal Piezoelectric Effect in Rochelle Salt Crystals. Proc. Phys. Soc. (London) 49, 646-653 (1937).
46. A Survey of Piezoelectricity. Am. Phys. Teacher 6, 227-242 (1938).
47. Proposed Standard Conventions for Expressing the Elastic and Piezoelectric Properties of Right and Left Quartz (with K.S. Van Dyke). Proc. Inst. Radio Engrs. 30, 495-499 (1942).
48. Selling Physics to the Liberal Arts Faculty. Am. J. Phys. 13, 305-306 (1945).
49. Piezoelectric and Ultrasonic Phenomena in the Ultrasonic Trainer. Report WUX-1, Radiation Laboratory, Cambridge, Mass., Sept. 30, (1945).
50. Piezoelectricity. McGraw-Hill Book Co., New York, 1946; revised ed., Dover Publications, New York, 1962.

51. Nature and Use of Piezoelectricity. Elec. Eng. 66, 758-762 (1947).
52. Ultrasonic Investigations. Tech. Rep. No.1, ONR Contract,
Wesleyan Univ., Dec. 20, 1947.
53. A Theory of the Crystal Transducer for Plane Waves. Tech. Rep. No. 2,
ONR Contract, Wesleyan Univ., Sept. 29, 1948; also J. Acoust. Soc. Am.
21, 65-73 (1949).
54. Measurement of Transducer Input and Output. Tech. Rep. No. 3, ONR
Contract, Wesleyan Univ., Feb. 21, 1949 (with P.D. Goodman).
55. Measurement of the Specific Acoustic Resistance of Liquids. Tech. Rep.
No. 4, ONR Contract, Wesleyan Univ., July 10, 1949 (with J.S. Mendousse).
56. Crystals and Electricity. Scientific American, 181, 46-51 (1949).
57. Piezoelectric Equations of State and their Application to Thickness-
vibration Transducers. Tech. Rep. No. 7, ONR Contract, Wesleyan Univ.
March 20, 1950; also in J. Acoust. Soc. Am. 22, 579-583 (1950).
58. A Generalized Theory of the Crystal Transmitter and Receiver for Plane
Waves. Tech. Rep. No. 8, ONR Contract, Wesleyan Univ., Nov. 20, 1950.
59. A Capacitance Bridge for High Frequencies. Rep. No. 6, ONR Contract,
Wesleyan Univ., Feb. 1, 1950 (with J.S. Mendousse and P.D. Goodman);
also in Rev. Sci. Instr. 21, 1002-1009 (1950).

60. Graphical Aids in Interpreting the Performance of Crystal Transducers.
J. Acoust. Soc. Am. 25, 687-696 (1953).
61. On the Measurement of Power Radiated from an Acoustic Source. Rep. No. 7, ONR Contract, Calif. Inst. Tech., Mar. 25, 1953 (with C.E. Gittings); also in J. Acoust. Soc. Am. 25, 892-896 (1953).
62. Composite Piezoelectric Resonator. Rep. No. 1, AF Contract, Calif. Inst. Tech., Am. J. Phys. 23, 31-40 (1955); also in I.R.E. Trans. on Ultrasonic Eng., PGUE-3, pp. 1-15, May, 1955.
63. Ultrasonics. I.R.E. Student Quarterly 1, 7-12 (1955).
64. Theory of the Plane Wave Acoustic Filter with Periodic Structure. Rep. No. 3, AF Contract, Calif. Inst. Tech., 1955; also in Abhand. der Math.-Naturwiss. Kl., Akad. der. Wissenschaften und der Lit., Mainz, pp. 221-234, 1955.
65. Piezoelectric and Electrostrictive Transducers. I.R.E. Wescon Convention Record, Part 9, pp. 12-17, 1957.
66. Piezoelectricity and Ultrasonics, Sound 2, 46-52 (1963).
67. The Circular Tractrix, American Mathematics Monthly 72, 1065-1071 (1965).
68. Impressions, Invited article in Liber Brunensis, Providence, 310-311 (1967).