References for Hermann von Helmholtz

1. Biography in *Dictionary of Scientific Biography* (New York 1970-1990).

Books:

2. E du Bois-Reymond, *Hermann von Helmholtz, Gedächtnissrede* (Leipzig, 1897).
3. D Cahan (ed.), *Hermann von Helmholtz and the Foundations of Nineteenth-Century Science* (Berkeley, CA, 1994).
4. H Ebert, *Hermann von Helmholtz* (Stuttgart, 1949).
5. C Jungnickel and R McCormmach, *Intellectual Mastery of Nature, 2 Volumes* (Chicago, 1986).
6. L Königsberger, *Hermann von Helmholtz* (New York, 1965).
7. J G McKendrick, *Hermann Ludwig Ferdinand von Helmholtz* (London, 1899).

Articles:

8. P Bailhache, Valeur actuelle de l'acoustique musicale de Helmholtz, *Rev. Histoire Sci.* **39** (4) (1986), 301-324.
9. A Bernardo, H von Helmholtz and metageometry (Italian), *Riv. Stor. Sci.* (2) **4** (2) (1996), 55-97.
10. G Bierhalter, Zu Hermann von Helmholtzens mechanischer Grundlegung der Wärmelehre aus dem Jahre 1884, *Arch. Hist. Exact Sci.* **25** (1) (1981), 71-84.
11. G Bierhalter, Die v. Helmholtzschen Monozykel-Analogien zur Thermodynamik und das Clausiussche Disgregationskonzept, *Arch. Hist. Exact Sci.* **29** (1) (1983), 95-100.
12. B V Bulyubash, The problems of electrodynamics in Helmholtz' discussion with Weber (Russian), in *Studies in the history of physics and mechanics, 1986* (Russian) "Nauka" (Moscow, 1986), 110-124; 270.
13. D Cahan, The young Einstein's physics eduction : H F Weber, Hermann von Helmholtz, and the Zurich Polytechnic Physics Institute, in *Einstein : the formative years, 1879--1909* (Boston, MA, 2000), 43-82.
14. C Chevalley, Hermann von Helmholtz, *Routledge Encyclopedia of Philosophy* **4** (London, New York, 1998), 337-340.
15. A C Crombie, Helmholtz, *Scientific American* **198** (3), (1958), 94-102.
16. G Heinzmann, Helmholtz and Poincaré's considerations on the genesis of geometry, in *1830-1930: a century of geometry* (Berlin, 1992), 245-249.
17. N Ionescu-Pallas, Hermann von Helmholtz - a forerunner of relativity theory? (Romanian), *Stud. Cerc. Fiz.* **40** (8) (1988), 661-680.
18. M Jaksi'c and M Mladjenovi'c, Two views of Helmholtz on the study of nature (Serbo-Croatian), *Zb. Rad. (Kragujevac) No.* **9** (1988), 21-29.
19. R Kahl, Hermann Ludwig von Helmholtz, in P Edwards (ed.), *The Encyclopedia of Philosophy* **3** (London, 1967), 469-471.
20. L L Kul'vetsas, The status of the concept of quantity in physics theory and H Helmholtz's book "Zählen und Messen" (Russian), in *Studies in the the history of physics and mechanics, 1989* (Russian) "Nauka" (Moscow, 1989), 170-186.
21. P T Landsberg, Hermann von Helmholtz : on the threshold of modern physics, in *The inverse problem* (Weinheim, 1995), 1-23.
22. B Mayerhofer, Das Prinzip der kleinsten Wirkung bei Hermann von Helmholtz, *Centaurus* **37** (4) (1994), 304-320.
23. J Michell, The origins of the representational theory of measurement : Helmholtz, Hölder, and Russell, *Stud. Hist. Philos. Sci.* **24** (2) (1993), 185-206.
24. J F Mulligan, Hermann von Helmholtz and his students, *American journal of physics* **57** (1989), 68-74.
25. J L Richards, The evolution of empiricism: Hermann von Helmholtz and the foundations of geometry, *British J. Philos. Sci.* **28** (3) (1977), 235-253.
26. G Schiemann, Between classical and modern theory of science : Hermann von Helmholtz and Karl R Popper compared epistemologically, in *The inverse problem* (Weinheim, 1995), 209-225.
27. O M Souza Filho, Helmholtz and the conservation of energy (Portuguese), in *The XIXth century : the birth of modern science Aguas de Lindoia, 1991* (Portuguese) (Campinas, 1992), 377-404.

28. M Sugiura, On the space problem of Helmholtz, in *Studies on the history of mathematics (Japanese) Kyoto, 1998, Surikaisekikenkyusho Kokyuroku No.* **1064** (1998), 6-14.
29. R Tazzioli, The Riemann-Helmholtz-Lie problem : "hypotheses", "facts" and "transformation groups" (Italian), in *Geometry Seminars, 1991-1993* (Italian) (Bologna, 1994), 249-270.
30. R S Turner, The Ohm-Seebeck dispute, Hermann von Helmholtz, and the origins of physiological acoustics, *British J. Hist. Sci.* **10** (34)(1) (1977), 1-24.
31. R S Turner, The origins of colorimetry: what did Helmholtz and Maxwell learn from Grassmann?, in *Hermann Günther Grassmann (1809-1877) : visionary mathematician, scientist and neohumanist scholar, Lieschow, 1994* (Dordrecht, 1996), 71-85.
32. K Volkert, On Helmholtz' paper "Über die thatsächlichen Grundlagen der Geometrie", *Historia Math.* **20** (3) (1993), 307-309.

March 2001

MacTutor History of Mathematics
[http://www-history.mcs.st-andrews.ac.uk/References/Helmholtz.html]