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REFERENCES

- Duxbury, T. C., A. C. Ocampo, and R. J. Doyle, Martian satellite search from Viking Orbiter (abstract), in *Lunar and Planetary Science XIII*, p. 192, Lunar and Planetary Institute, Houston, 1982.
- Gault, D. E., Impact cratering, in *A Primer in Lunar Geology*, NASA-TM-X-62359, edited by R. Greeley and P. H. Schultz, pp. 137-176, 1974.
- Gault, D. E., and J. A. Wedekind, Experimental studies of oblique impact, *Proc. Lunar Planet. Sci. Conf. 9th*, 3843-3875, 1978.
- Gilbert, G. K., The moon's face, a study of the origin of its features, *Bull. Philos. Soc. Wash.*, 12, 241-292, 1893.
- Goldreich, P., Inclination of satellite orbits in the solar system, *Astron. J.*, 70, 5-9, 1965.
- Goldreich, P., and A. Toomre, Some remarks on polar wandering, *J. Geophys. Res.*, 74, 2555-2569, 1969.
- Harris, A. W., and W. M. Kaula, A co-accretion model of satellite formation, *Icarus*, 24, 516-524, 1975.
- Harris, A. W., Satellite formation, II, *Icarus*, 34, 128-145, 1978.
- Hartmann, W. K., D. R. Davis, C. R. Chapman, S. Soter, and R. Greenberg, Mars: satellite origin and angular momentum, *Icarus*, 25, 588-594, 1975.
- Hartmann, W. K., R. G. Strom, S. J. Weidenschilling, K. R. Blasius, A. Woronow, M. R. Dence, R. A. F. Grieve, J. Diaz, C. R. Chapman, E. M. Shoemaker, and K. L. Jones, Chronology of planetary volcanism by comparative studies of planetary cratering, in *Basaltic Volcanism on the Terrestrial Planets*, Basaltic Volcanism Study Project, pp. 1048-1127, Pergamon, New York, 1981.
- Lambeck, K., On the orbital evolution of the Martian satellites, *J. Geophys. Res.*, 84, 5651-5658, 1979.
- Melosh, H. J., Tectonic patterns on a reoriented planet: Mars, *Icarus*, 44, 745-751, 1980.
- Murray, B. C., and M. C. Malin, Polar wandering on Mars?, *Science*, 197, 997-1000, 1973.
- Mutch, T. A., and R. S. Saunders, The geologic development of Mars: a review, *Space Sci. Rev.*, 19, 3-57, 1976.
- Neukum G., and D. U. Wise, Mars: A standard crater curve and possible new time scale, *Science*, 194, 1381-1387, 1976.
- Oberbeck, V. R., and R. H. Morrison, Laboratory simulation of the herringbone pattern associated with lunar secondary crater chains, *The Moon*, 9, 415-455, 1974.
- Öpik, E. J., *Interplanetary Encounters*, Elsevier, New York, 155 pp., 1976.
- Schmidt, R. M., and K. A. Holsapple, Estimates of crater size for large-body impact: gravity-scaling results, *Proc. Conf. Large-body Impacts and Terrestrial Evolution*, in press, 1982.
- Schultz, P. H., *Moon Morphology*, Univ. of Texas Press, Austin, 626 pp., 1976.
- Schultz, P. H., Evidence and mechanisms for the non-local contribution to ejecta deposits, in *Workshop on Apollo 16*, edited by O. B. James and F. Hörz, pp. 120-122, LPI Tech. Rpt. 81-01, Lunar and Planetary Institute, Houston, 1981.
- Schultz, P. H., and A. B. Lutz-Garihan, Equatorial paleo-poles on Mars (abstract), in *Lunar and Planetary Science XII*, pp. 946-948, Lunar and Planetary Institute, Houston, 1981a.
- Schultz, P. H., and A. B. Lutz-Garihan, Ancient polar locations on Mars: evidence and implications, in *Papers Presented to the Third International Colloquium on Mars*, pp. 229-231, Lunar and Planetary Institute, Houston, 1981b.
- Shoemaker, E. M., Interpretation of lunar craters, in *Physics and Astronomy of the Moon*, edited by Z. Kopal, pp. 283-359, Academic, New York, 1962.
- Singer, S. F., The Martian satellites, in *Physical Studies of Minor Planets*, edited by T. Gehrels, pp. 399-405, NASA SP-267, 1971.
- Stauffer, M. R., An empirical-statistical study of three-dimensional fabric diagrams as used in structural analysis, *Can. J. Earth Sci.*, 3, 473-498, 1966.
- Ward, W. R., Present obliquity oscillations of Mars: Fourth-order accuracy in orbital e and I , *J. Geophys. Res.*, 84, 237-241, 1979.
- Ward, W. R., J. A. Burns, and O. B. Toon, Past obliquity oscillations of Mars: the role of the Tharsis uplift, *J. Geophys. Res.*, 84, 243-259, 1979.
- Wetherill, G. W., Late heavy bombardment of the moon and terrestrial planets, *Proc. Lunar Sci. Conf. 6th*, 1539-1561, 1975.

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