

- Solomon, S. C., and J. W. Head, Vertical movement in mare basins: Relation to mare emplacement, basin tectonics, and lunar thermal history, *J. Geophys. Res.*, **84**, 1667–1682, 1979.
- Solomon, S. C., and J. W. Head, Lunar mascon basins: Lava filling, tectonics, and evolution of the lithosphere, *Rev. Geophys.*, **18**, 107–141, 1980.
- Solomon, S. C., and J. W. Head, Evolution of the Tharsis province, Mars: The importance of heterogeneous lithospheric thickness and volcanic construction, *J. Geophys. Res.*, **87**, 9755–9774, 1982.
- Thurber, C. H., and M. N. Toksoz, Martian lithospheric thickness from elastic flexure theory, *Geophys. Res. Lett.*, **5**, 977–980, 1978.
- Turcotte, D. L., R. J. Willemann, W. F. Haxby, and J. Norberry, Role of membrane stresses in the support of planetary topography, *J. Geophys. Res.*, **86**, 3951–3959, 1981.
- Wilhelms, D. E., and S. W. Squyres, The Martian hemispheric dichotomy may be due to a giant impact, *Nature*, **309**, 138–140, 1984.
- Willemann, R. J., and D. L. Turcotte, Support of topographic and other loads on the moon and on the terrestrial planets, *Proc. Lunar Planet. Sci.*, **12B**, 837–851, 1981.
- Willemann, R. J., and D. L. Turcotte, The role of lithospheric stress in the support of the Tharsis rise, *J. Geophys. Res.*, **87**, 9793–9801, 1982.
- Wise, D. U., M. P. Golombek, and G. E. McGill, Tharsis province of Mars: Geologic sequence, geometry, and a deformation mechanism, *Icarus*, **38**, 456–472, 1979a.
- Wise, D. U., M. P. Golombek, and G. E. McGill, Tectonic evolution of Mars, *J. Geophys. Res.*, **84**, 7934–7939, 1979b.
-
- J. L. Hall and S. C. Solomon, Department of Earth, Atmospheric, and Planetary Sciences, Massachusetts Institute of Technology, Cambridge, MA 02139.
- J. W. Head, Department of Geological Sciences, Brown University, Providence, RI 02912.

(Received September 4, 1985;
revised April 18, 1986;
accepted July 7, 1986.)