

1. 1. Energy transfer in one-dimensional collisions of many objects (with J. B. Fort), *American Journal of Physics* **36**, 46-49, 1968.
2. 2. Herrmann, R. B. (1969). The structure of the Cincinnati Arch as determined by short period Rayleigh waves, *Bull. Seism. Soc. Am.* **59**, 399-407.
3. 3. The south central Illinois earthquake of November 9, 1968: Macro seismic studies (with D. W. Gordon, T. J. Bennett, and A. M. Rogers), *Bull. Seism. Soc. Am.* **60**, 963-972, 1970.
4. 4. Herrmann, R. B. (1973). Some aspects of band pass filtering of surface waves, *Bull. Seism. Soc. Am.* **63**, 703-711.
5. 5. Herrmann, R. B. (1973). Surface wave generation by the south central Illinois earthquake of November 9, 1968, *Bull. Seism. Soc. Am.* **63**, 2121-2134, 1973.
6. 6. Street, R. L., R. B. Herrmann and O. W. Nuttli (1974). Earthquake mechanics in the central United States *Science* **184**, 1285-1287, 1974.
7. 7. Herrmann, R. B. and O. W. Nuttli (1975). Ground motion modeling in a continental interior, I. Theory and observations *International Journal of Earthquake Engineering and Structural Dynamics* **4**, 49-58, 1975.
8. 8. Herrmann, R. B. and O. W. Nuttli (1975). Ground motion modeling in a continental interior, II. Effect of focal depth, azimuth, and attenuation, *International Journal of Earthquake Engineering and Structural Dynamics* **4**, 59-72, 1975.
9. 9. R. L. Street, R. B. Herrmann and O. W. Nuttli (1975). Spectral characteristics of the Lg wave generated by central United States earthquakes, *Geophysical Journal of the Royal Astronomical Society* **41**, 51-63, 1975.
10. 10. Herrmann, R. B. (1975). The use of duration as a measure of seismic moment and magnitude, *Bull. Seism. Soc. Am.* **65**, 899-913.
11. 11. Herrmann, R. B. and B. J. Mitchell (1975). Statistical analysis and interpretation of surface wave anelastic attenuation data for the stable interior of North America *Bull. Seism. Soc. Am.* **65**, 1115-1128, 1975.
12. 12. Herrmann, R. B. (1975). A student's guide to the use of P and S wave data for focal mechanism determination, *Earthquake Notes* **46**, 29-40, 1975. [EQNOTES 46 4 29-39.pdf](#)
13. 13. Herrmann, R. B. (1976). Some more complexity in S-wave particle motion, *Bull. Seism. Soc. Am.* **66**, 623-630.
14. 14. Herrmann, R. B. (1976). Focal depth determination from the signal character of long-period P-waves, *Bull.*

24. 24.Herrmann, R. B. (1978). A note on causality problems in the numerical synthesis of elastic wave propagation in cylindrical coordinate systems, *Bull. Seism. Soc. Am.* **68**, 117-123.
25. 25.Herrmann, R. B. and G. W. Fischer (1978). Theoretical seismogram constraints on some crustal velocity models in the central United States *PAGEOPH* **116**, 1250-1261.
26. 26.Herrmann, R. B. (1978). A seismological study of two Attica, New York earthquakes, *Bull. Seism. Soc. Am.* **68**, 641-651.
27. 27.Herrmann, R. B. and J. A. Canas(1978). Focal mechanism studies in the New Madrid Seismic Zone, *Bull. Seism. Soc. Am.* **68**, 1095-1102.
28. 28.Herrmann, R. B. (1978). *Computer Programs in Earthquake Seismology, Volume 1: General Programs*, edited by R. B. Herrmann, Department of Earth and Atmospheric Sciences, Saint Louis University, November 1978 (NTIS PB \ 292\ 462).
29. 29.Herrmann, R. B. (1978). *Computer Programs in Earthquake Seismology, Volume 2: Surface Wave Programs*, Department of Earth and Atmospheric Sciences, Saint Louis University, November 1978 (NTIS PB\ 292\ 463).
30. 30.Herrmann, R. B., S. H. Cheng and O. W. Nuttli (1978). Archaeoseismology applied to the New Madrid earthquakes of 1811-1812, *Bull. Seism. Soc. Am.* **68**, 1751-1759.
31. 31.Herrmann, R. B. (1979). SH wave generation by dislocation sources - A numerical study, *Bull. Seism. Soc. Am.* **69**, 1-16.
32. 32.Herrmann, R. B. (1979). Surface wave focal mechanisms for eastern North American earthquakes with tectonic implications, *J. Geophys. Res.* **84**,3543-3552.
33. 33.Mitchell, B. J., and Herrmann, R. B. (1979). Shear velocity in the Eastern United States from the inversion of surface wave group and phase velocities, *Bull. Seism. Soc. Am.* **69**, 1133-1148.
34. 34.Nuttli, O. W. and Herrmann, R. B. (1978). *Credible Earthquakes for the Central United States, State-of-the-Art for Assessing Earthquake Hazards in the United States*, Miscellaneous Paper, U. S. Army Engineer Waterways Experiment Station, Vicksburg, Mississippi, 100pp., 16 fig., December 1978.
35. 35.Herrmann, R. B., and C. Y. Wang (1979). *SH - A Computer Program for Generating Far-field Tangential Time Histories for Point Earthquake Sources*, Department of Earth and

46. Herrmann, R. B., and O. W. Nuttli (1982). Magnitude: The relation of ML to mbLG , *Bull. Seism. Soc. Am.* **72**, 3
89

69. 69.Woods, M. T. and R. B. Herrmann (1989). A surface wave reconnaissance of the Ozark Uplift and Illinois Basin, *Seism. Res. Letters* **60**, 111-118 [SRL_60_3_111-118.pdf](#).
70. 70.Wang., C.-Y. and R. B. Herrmann (1988). Synthesis of Coda Waves in Layered Media, *PAGEOPH* 128, 7-42.
71. 71.Mokhtar, T. A., R. B. Herrmann, and D. R. Russell (1988). Seismic velocity and Q model for the shallow structure of the Arabian shield from shortperiod Rayleigh waves, *Geophysics* **53**, 1379-1387.
72. 72.Burger, R. W., P. G. Somerville, J. S. Barker, R. B. Herrmann and D. V. Helmberger (1987). The effect of crustal structure

89. Herrmann, R. B., and G. Al-Eqabi (1991). Surface waves: Inversion for shear wave velocity, in *Shear Waves in Marine Sediments*, Hovem et al(eds), Kluwer, Dordrecht, pp 545-556.
90. Herrmann, R. B. (1992). A Student's introduction to wave propagation in a homogeneous fluid sphere, *Seism. Res. Letters* **63**, 161-167 [SRL 63 2 161-167.pdf](#).
91. Al-Eqabi, G. I., and R. B. Herrmann (1993). Ground-roll: a potential tool for constraining shallow shear-wave structure, *Geophysics* **58**, 713-719.
92. Al-Eqabi, G. I., and ~~XXXXXXXXXXXX~~ (1993). Physical techniques for characterizing shallow velocity-attenuation models, SAGEEP Conference, Chicago.
93. Toro, G. R., W. J. Silva, R. K. McGuire and R. B. Herrmann (1992). Probabilistic seismic hazard mapping of the Mississippi Embayment, *Seism. Res. Letters* **63**, 449-475 [SRL 63 3 449-475.pdf](#).
- 94.

109. Missouri Seismic Safety Commission (1997) A Strategic Plan for Seismic Safety in Missouri. 76 pages
(R. B. Herrmann, chair and editor of report).
110. Pujol, J.,

151. 151.Herrmann, R. B. . L. Malagnini and I. Munafò (2011). Regional moment tensors of the 2009 L'Aquila earthquake sequence, *Bull. Seism. Soc. Am.***101**, 975-993.
152. 152.Herrmann, R. B., H. Benz, and C. J. Ammon (2011). Monitoring the earthquake process in North America, *Bull. Seism. Soc. Am.* **101**, 2609-2625,doi:10.1785/0120110095 .
153. 153.Herrmann, R. B. (2013) Computer programs in seismology: An evolving tool for instruction and research, *Seism. Res. Lettr.* 84, 1081-1088,doi:10.1785/0220110096
154. 154.D'Amico S., Orecchio B., Presti D., Gervasi A., Guerra I., Neri G., Zhu L., Herrmann R. B. (2011). Testing the stability of moment tensor solutions for small and moderate earthquakes in the Calabrian - Peloritan arc region. *Boll. Geo. Teor. Appl.*, 52, 283-298 doi:10.4430/bgta0009
155. 155.Qiao, L., R. B. Herrmann, and Z. Pan (2013). Parameter uncertainty reduction for SWAT using GRACE, streamflow and groundwater table data for Lower Missouri River basin, *J. Amer. Water Res. Assoc* 49, 343-