

Publications

Liu, L., and T. Guo, **Seismic non-destructive testing on reinforced concrete bridge column: A case study**, Journal of Bridge Engineering, 2001 (in review).

Zhou, Chaoguang, Liu, Lanbo, and Lane, J.W., Jr., 2001, **Nonlinear inversion of borehole-radar tomography data to reconstruct velocity and attenuation distribution in earth materials**: Journal of Applied Geophysics, v.47, p.271-284.

Liu, L., and Y. Li, **Identification of liquefaction and deformation features in the New Madrid seismic zone, USA, with ground penetrating radar**, Journal of Applied Geophysics, 47, 199-215, 2001.

Liu, L., **Stable continental region earthquakes in south China**, Pure Appl. Geophys., 158, 1483-1611, 2001.

Dehlinger, P., L. Liu, and R. Lewis, **The free-air gravity anomaly map of the Long Island and Block Island Sounds, in Georeferenced Sea-floor Mapping and Bottom Photography in Long Island Sound**, edited by V. F. Paskevich and L. J. Poppe, U.S. Geological Survey Open-File Report, 00-304, 2000.

Zhou, C., and L. Liu, **Diffraction tomography using the modified quasi-linear approximation**, IEEE Transactions on Geoscience and Remote Sensing, 38, 404-415, 2000.

Liu, L., J. Lane, and Y. Quan, **Radar attenuation tomography using the centroid frequency downshift method**, Journal of Applied Geophysics, 40, 105-116, 1998.

Liu, Lanbo, and Oristaglio, Michael, 1998, **GPR Signal Analysis - Instantaneous Parameter Estimation Using the Wavelet Transform**, in Proceedings of the 7th International Conference on Ground Penetrating Radar (GPR '98), Lawrence, Kansas, May 27-30, 1998, p.219-224.

Liu, L., M. D. Zoback, **Lithospheric strength and intraplate seismicity in the New Madrid seismic zone**, Tectonics, 16, 585-595, 1997.

Liu, L., A. T. Linde, I. S. Sacks, and S. He, **A seismic fault slip and block deformation in north China**, Pure Appl. Geophys., 146, 717-740, 1996.

Liu, L., M. D. Zoback, and P. Segall, **Rapid intraplate strain accumulation in the New Madrid seismic zone**, Science, 257, 1666-1669, 1992.

Liu, L., and M. D. Zoback, **The effect of topography on state of stress at depth in the crust: application to the site of the Cajon Pass Scientific Drilling Project**, J. Geophys. Res., 97, 5095-5108, 1992.

Liu, L., E. Roeloffs, and X. Zheng, **Seismically induced water level fluctuations in the Wali well, Beijing, China**, J. Geophys. Res., 94, 9453-9462, 1989.