

PUBLICATIONS

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9. V. Harik, R. P. Gilbert and A. Panchenko. Vibration of two bonded periodic composites. *International Journal of Solids and Structures*, **40** (2002), no. 12, 3177-3193.
10. R. P. Gilbert and A. Panchenko. Effective acoustic equations for a nonconsolidated medium with microstructure. In: *Acoustics, mechanics and the related topics of mathematical analysis*, World Scientific, River Edge, NJ, (2002), 164-170.
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15. L. Berlyand and A. Panchenko. Strong and weak blow up of the viscous dissipation rates for concentrated suspensions. *Journal of Fluid Mechanics*, 578 (2007), 1–34.

16. M. C. Calderer and A. Panchenko. Young measures and order-disorder transition in liquid crystal flows. *SIAM Journ. Math. Analysis*, **38**, no. 5 (2007), 1642–1659.

17. R. P. Gilbert, A. Panchenko and X. Xie. A prototype homogenization model for acoustics of granular materials. *International Journal of Multiscale Computational Engineering*, **4**, (5–6), 2006, 585–600.

18. K. A. Ariyawansa, L. Berlyand and A. Panchenko, A network model of geometrically constrained deformations of granular materials. Accepted for publication in *Networks and Heterogeneous Media*.

Preprint available at <http://www.math.wsu.edu/math/faculty/panchenko>

19. M. Fang, R. P. Gilbert, A. Panchenko and A. Vasilic, Homogenizing the time harmonic acoustics of bone: the monophasic case. *Mathematical and Computer Modeling*, **46**, 3-4, (2007), 331–340.