PUBLICATIONS OF MAX GUNZBURGER

Books

Edited books

Journal articles
6. Frequency modulation at a moving material interface and a conservation law for wave number, J. Sound Vib. 48, 1976, 169-178; with G. Kleinsein.
7. On the mathematical conditions for the existence of periodic fluctuations in nonuniform media; J. Sound Vib. 48, 1976, 345-357; with G. Kleinsein.
10. Application of the wavenumber jump condition to the normal and oblique interaction of a plane acoustic wave and a plane shock; J. Sound Vib. 53, 1977, 417-433; with G. Kleinsein.
15. Simulation of the pressure field near a jet by randomly distributed vortex rings; AIAA J. 17, 1979, 553-557; with Y. Fung and C. Liu.


60. Vibration of delaminated composite plates and some applications to non-destructive testing; Compos. Struct. 23, 1993, 253-262; with E. Henneke and L. Tenek.


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199. Parallel finite element implementation for higher-order ice-sheet models; J. Glaciology 58 2012, 76-88; with J. Burkardt and M. Perego.


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257. Optimal control of stochastic cylinder flow using polynomial chaos expansion; submitted; with L. Hou and J. Ming.

258. Analysis and approximation of a nonlocal obstacle problem; submitted; with Q. Guan.

259. $\theta$-schemes for finite element discretization of the space-time fractional diffusion equations; submitted; with Q. Guan.


261. An ensemble-proper orthogonal decomposition method for the nonstationary Navier-Stokes equations; submitted; with N. Jiang and M. Schneier.

262. Well posedness of a coupled ice-hydrology problem arising in glaciology; submitted; with L. Bertagna.

263. Reduced basis methods for nonlocal diffusion problems with random input data; submitted; with Q. Guan, C. Webster, and G. Zhang.

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264. Simulation by vortex rings of the unsteady pressure field near a jet; Progress in Astronautics and Aeronautics 43, AIAA and MIT, 1976, 47-64; with C. Liu and L. Maestrello.


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283. A numerical study of the effects of curvature on the fluid dynamics of gas centrifuges; Proc. 5-th Workshop on Gases in Strong Rotation, U. of Virginia, 1983, 745-800; with J. Jordan and H. Wood.


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394. *Reduced-order models of large-scale computational systems*; SIAM News, 38/5 2005; with K. Willcox. [News article]


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