

LIST OF PUBLICATIONS

Vladimir E. Ostashev, Ph.D., Dr.Sc.

Books

- [1] V. E. Ostashev and D. K. Wilson, *Acoustics in Moving Inhomogeneous Media, Second Edition* (CRC Press, 2015).
- [2] V. E. Ostashev, *Acoustics in Moving Inhomogeneous Media* (E & FN SPON, Thompson Professional, London, 1997).
- [3] V. E. Ostashev, *Sound propagation in moving media* (Nauka, Main Editorial Board for Physical and Mathematical Literature, Moscow, 1992).
- [4] V. M. Babich, V. S. Buldyrev, N. S. Grigor'yeva, I. A. Molotkov, and V. E. Ostashev, *Nonstationary problems of the diffraction theory* (Lectures of the 9th All-Union School on Diffraction and Wave Propagation, Kazan Aviation Institute, 1988).

Contributions to books

- [5] V. E. Ostashev, "Geometrical acoustics in moving media," In: *Sound-Flow Interactions*, pp. 161-170 (Springer Verlag, Lecture Notes in Physics, Berlin, 2002).
- [6] V. E. Ostashev, "Sound propagation and scattering in random moving media," In: *Sound-Flow Interactions*, pp. 169-191 (Springer Verlag, Lecture Notes in Physics, Berlin, 2002).
- [7] V. E. Ostashev, Contributor to section "Acoustics" in: *Dictionary of Pure and Applied Physics* (CRC Press, 2001).

Reviews in peer-reviewed journals

- [8] V. E. Ostashev, "Sound propagation and scattering in media with random inhomogeneities of sound speed, density and medium velocity (Review article)", *Waves in Random Media* **4**, 403-428 (1994).
- [9] V. E. Ostashev, "Ray Acoustics of Moving Media: A Survey", *Izv. Acad. Scienc. USSR. Atmos. Ocean. Phys.* **25** (9) 661-673 (1989).
- [10] V. E. Ostashev, "Theory of sound propagation in an inhomogeneous moving medium (Review)", *Izv. Acad. Scienc. USSR. Atmos. Ocean. Phys.* **21** (4) 274-285 (1985).

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- [11] V. E. Ostashev, D. K. Wilson, A. Finn, and E. Barlas, "Theory for spectral broadening of narrowband signals in the atmosphere and experiment with an acoustic source onboard an unmanned aerial vehicle," *J. Acoust. Soc. Am.* **145**(6), 3703-3714 (2019).
- [12] V. E. Ostashev and D. K. Wilson, "Non-Markov character of the phase fluctuations for sound propagation over relatively small ranges in the turbulent atmosphere," *J. Acoust. Soc. Am.* **145**(6) 3359-3369 (2019).

- [13] V. E. Ostashev, M. B. Muhlestein, and D. K. Wilson, “Extra-wide-angle parabolic equations in motionless and moving media,” *J. Acoust. Soc. Am.* **145**(2) 1031–1047 (2019).
- [14] S. Cheinet, M. Cosnefroy, F. Königstein, W. Rickert, M. Christoph, S. L. Collier, A. Dagallier, L. Ehrhardt, V. E. Ostashev, A. Stefanovic, T. Wessling, D. K. Wilson “An experimental study on the atmospheric-driven variability of impulse sounds,” *J. Acoust. Soc. Am.* **144**(2), 822-840 (2018).
- [15] V. E. Ostashev and D. K. Wilson, “Statistical characterization of sound propagation over vertical and slanted paths in a turbulent atmosphere,” *Acta Acustica* **143**(4), 571-585 (2018).
- [16] V. E. Ostashev and D. K. Wilson, “Erratum: Strength and wave parameters for sound propagation in random media [*J. Acoust. Soc. Am.* **141**(3) 2079 - 2092 (2017)],” *J. Acoust. Soc. Am.* **143**(4), 2164 (2018).
- [17] V. E. Ostashev, D. K. Wilson, M. B. Muhlestein, and K. Attenborough, “Correspondence between sound propagation in discrete and continuous random media with application to forest acoustics,” *J. Acoust. Soc. Am.* **143**(2), 1194-1205 (2018).
- [18] M. B. Muhlestein, V. E. Ostashev, and D. K. Wilson, “Pulse propagation in a forest,” *J. Acoust. Soc. Am.* **143**(2), 968-979 (2018).
- [19] V. E. Ostashev, M. B. Muhlestein, and D. K. Wilson, “Radiative transfer formulation for forest acoustics,” *J. Acoust. Soc. Am.* **142**(6), 3767-3780 (2017).
- [20] V. E. Ostashev, D. K. Wilson, and M. B. Muhlestein “Effective wavenumbers for sound scattering by trunks, branches, and the canopy in a forest,” *J. Acoust. Soc. Am.* **142**(2), EL177-183 (2017).
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- [23] D. K. Wilson, C. L. Pettit, and V. E. Ostashev, “Sound Propagation in the Atmospheric Boundary Layer,” *Acoustics Today* **11** (2) 44-53 (2015).
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Conference papers, Dissertations, and Preprints

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- [112] D. K. Wilson, D. J. Breton, C. L. Pettit, and V. E. Ostashev, "Bayesian learning of random signal distributions in complex environments," SPIE, Defense and Commercial Sensing Symposium (Baltimore, 2019).
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