

Publication list of Acoustics, Ultrasound and Vibration at NMIJ / AIST

Acoustic standards

- [1] K. Yamada, H. Takahashi and R. Horiuchi, “Availability of reference sound sources for qualification of hemi-anechoic rooms based on deviation of sound pressure level from inverse square law”, *IEICE Trans. on Fundamentals*, Vol. E101 A, No. 1, pp.211-218 (2018.1).
- [2] H. Takahashi and R. Horiuchi, “Uncertainty analysis on free-field reciprocity calibration of WS3 microphones”, *J. Acoust. Soc. Am.*, Vol. 144, No. 4, pp.2584-2597, (2018.10)

Ultrasonic standards

- [1] T. Uchida, M. Yoshioka, Y. Matsuda, and R. Horiuchi, Measurement on Ultrasonic Power by Calorimetric Method -Comparison between Saturated and Degassed Water-, *Proceedings of Symposium on Ultrasonic Electronics*, Vol. 38, p. 3P2-1 (2017).
- [2] T. Uchida, M. Yoshioka, R. Horiuchi, Effect of Dissolved Oxygen Level of Water on Ultrasonic Power Measured Using Calorimetry, *Jpn. J. Appl. Phys.* 57, p. 07LC04 (2018).
- [3] Y. Chiba, M. Yoshioka, and R. Horiuchi, Measurement of instantaneous acoustic pressure for diagnostic ultrasound using frequency characteristics of amplitude and phase of hydrophone sensitivity, *Proceedings of Symposium on Ultrasonic Electronics*, Vol. 39, p. 1P5-7 (2018).

Vibration and acceleration standards

- [1] T. Usuda, A. Ota, H. Nozato, T. Ishigami, W. Kokuyama, V. Plangsangmas, P. Rattanangkul, K. Tsuei, Y. Huang, C. Keong, C. Shan, “Final Report of the Key Comparison of APMP.AUV.V-K2”, *Metrologia*, 54 09004 (2017).
- [2] A. Ota, H. Nozato, W. Kokuyama, K. Hattori, “Current progress of development of vibration calibration system in NMIJ”, *Proc. of IMEKO 23rd TC3, 13th TC5 and 4th TC22 Int. Conf.*, 749 (2017).
- [3] H. Nozato, W. Kokuyama and T. Mashiko, “Investigation of triaxial shock measurement by using three laser Doppler vibrometers”, *Proc. of IMEKO 23rd TC3, 13th TC5 and 4th TC22 Int. Conf.*, 718 (2017).
- [4] H. Nozato, M. Shimizu, S. Nakao, S. Chiba, A. Ota, W. Kokuyama, K. Hattori, “A comparison of low-shock and centrifuge calibrations using piezo-resistive accelerometers”, *Metrologia*, 55 S13-S22 (2018).
- [5] H. Nozato, W. Kokuyama, K. Hattori, A. Ota, “Time delay evaluation for laser interferometer using electro-optical modulator”, *Journal of Physics: Conference Series*, 1065, 222008 (2018).

- [6] H. Nozato, W. Kokuyama, K. Hattori, Y. Tanaka, A. Ota, “An investigation on influence of mass inertia using primary calibration of back-to-back accelerometer by laser interferometry”, *Metrologia*, accepted.