

Application of a transient test technique to the study of the local vibration characteristics of ship structures

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Vibration Measurement

From small, portable DAQ devices to all-in-one systems with high-channel-count, integrated processing computer, display, and batteries. In this paper we study in a three-dimensional resonator with axial symmetry how new harmonics obtained by nonlinear distortion can be enhanced by taking the nonlinear resonance effect into account, and we show that the generation of new frequency components by nonlinear frequency mixing exists. The form and period of the vibration remain the same whether it is the displacement, velocity, or acceleration that is being considered.

Dominant components of vibrational energy flow in stiffened panels analysed by the structural intensity technique

The impact force increases with the increase of the times of gustiness debris flow, and the impact torque increases linearly. The correctness of the water resistance calculation model is verified.

Vibration Measurement

The free vibration model is solved by the approximate assumed-modes method. Editorial This volume contains the proceedings of the 2 nd International Conference on Numerical Modelling in Engineering NME , 19-22 August 2019, Beijing, China. At the same frequency, GSN performs better in restricting the settlement ratio than the ordinary geogrid, and as the frequency increases, the reinforcing effects of both the ordinary geogrid and GSN decrease.

Dominant components of vibrational energy flow in stiffened panels analysed by the structural intensity technique

The research shows that the method proposed in this paper can effectively diagnose the gearbox fault and is better than the empirical mode decomposition.

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