

Noise Control in Russia

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This text is part of a series of books on applied physics and engineering with O.V. Rudenko as Editor-in-Chief. It is a series of nine articles, translated into English, on various topics related to noise control in Russia. The first chapter, by A.S. Nikiforov, is devoted to structure-borne damping, especially in ribbed plates. The second article, by G.M. Avilova and S.A. Rybak, deals with sound insulation by layered partitions, especially walls. The third article deals with adaptive systems for canceling noise and vibration, and covers algorithms for noise and vibration cancellation systems. Yu. I. Matveev, in the fourth article, turns to monitoring of vibration levels in industry, and deals with measurements and the effects of vibration levels on workers. Noise and vibration in centrifugal fans, the effects of fan housings, and the design of mufflers is the subject of the fifth article on noise and vibration of centrifugal fans by D.V. Bazhenof and L.A. Bazhenova.

Acoustical wave propagation is inherently nonlinear, and noise by high-amplitude waves is the subject of the sixth article, a short description of nonlinear methods in noise control by O.V. Rudenko. Room acoustics, including sound energy decay and normal mode theory is covered in the seventh chapter by S.A. Rybak and L.A. Soroka. Finally, there are two chapters by G.L. Osipov, the first on protection from environmental noise generated by automobiles, aircraft, trains, and industrial noise sources, and the second on Russian standards for protection against noise.