CALCULATION OF THE FIRST RESONANT FREQUENCY AND THE FIRST RESONANT FACTOR OF A SOUND ABSORPTION OF MATERIAL MR

© 2009 E. A. Izzheurrov[1], M. V. Degtyarev[1], Jiang Hongyuan [2], Wu Guoqi[2]

[1]Samara State Aerospace University
[2]Kharbin Polytechnic University

It is possible to express sound-proof property of material MR (MR) by the first resonant frequency (FRF) and by the first resonant factor of a sound absorption a_g. In work the equation of calculation of the FRF of MR in function of cos, from which the graphic way receives the FRF is received. After comparison of values of the FRF treated as a result of the decision of the formula with values, received by a method of long lines, it is drawn a conclusion on greater accuracy of new method. Considering influence of attenuation of a resonance of pores, for coth yh the amendment is made. As a result of the decision of two equations are received the first resonant factor of a sound absorption a_g. After comparison with the measured values a_g, it is drawn a conclusion on accuracy of calculation information.

Material MR, factor of a sound absorption, sound-proof property, aqoustik impedance, resonance, resonant frequency

Izzheurrov Evgeny Aleksandrovich, doctor of science, professor of the Samara State Aerospace University. E-mail: izj@ssau.ru. Area of research: sealing made of MR material.

Degtyarev Michael Vladimirovich, postgraduate of the Samara State Aerospace University. E-mail: mvd.samara@gmail.com. Area of research: sealing made of MR material.

Jiang Hongyuan, professor of Kharbin Polytechnic University. Phone: 1086-451-6418028. Area of research: sealing made of MR material.

Wu Guoqi, postgraduate of Kharbin Polytechnic University. Area of research: sealing made of MR material.

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