

CONTENTS

Vlasov E. V., Ghinevskii A. S. Problem of aeroacoustical interactions (Review)	1
Belinskii B. P., Kouzov D. P. Optical theorem for a system plate-liquid	13
Blank F. G. On radiation impedance of pistons operating in a homogeneous layer	20
Bogdanov D. L., Ghevorkyan E. V., Lagunov A. S. Acoustical properties of liquid crystals in a rotating magnetic field	28
Bozhkov A. I., Bunkin F. V., Kolomenskii Al. A. Acoustical disturbances in medium caused by limited motion of thermal source with sound velocity	35
Borisov Yu. Ya. Design features of a gas-jet radiator	41
Grigor'yan F. E. Diffraction of sound waves on a diaphragm in circular waveguide	48
Zhvalov V. P., Zhukov E. N., Sorkin L. I., Tolstoshejev M. N. Internal noise of turbojet	55
Zhileikin Ya. M., Zhuravleva T. M., Rudenko O. V. Nonlinear phenomena accompanying propagation of high-frequency sound waves in ducts	62
Zhukov V. B. Statistical problem of array synthesis	67
Kazhis R.-I. Frequency characteristics of piezoelectric shear waves receiver with inhomogeneous electric field	74
Kandidov V. P., Shenjanskii L. A. Waves in cylindrical shell with stiffeners in liquid	84
Kozaev E. F., Naugol'nikh K. A. On parametric radiation of sound in two-phase medium	91
Kutitshev M. A. Study of reflector efficiency in waveguide	99
Lapin A. D. Dependence of resonant properties of reflecting gratings for Rayleigh waves on tooth form	104
Levitskii L. A. On propagation of sound waves in two dimensional waveguide with thin elastic walls in liquid medium	112
Pukhova S. M., Tsukernikov I. E. Calculation of radiation pattern of acoustical radiator of arbitrary shape on the basis of near field sound pressure measurements on the surface of a finite circular cylinder	122
Tsinker L. S. Use of waveguide insulator for insulation of normal mode of zero order in ducts	127

Notes

Busher M. K., Nikitin L. B. On calculation of electromechanical polygonal transducer of smallheight	132
Vinokur R. Yu. Dependence of sound insulation of thin finite plate in coincidence region	135
Gorskii S. M., Petukhov Yu. V., Fridman V. E. Spectrum of intensive underwater pulse reflected from water surface	137
Kasatkin B. A. Diffraction of normal waves on soft disc	139
Kataev G. I., Shubin V. V. Dependence of modulus of elasticity of TbFe ₂ on magnetic field up to 70 kOe	142
Klimov A. E. Diffraction of plane sound waves on grating of acoustically circular cylinders partly covered by layer of ideally compliant material of finite thickness	145
Klimov S. P., Mazanikov A. A., Merkulov V. N., Tyutekin V. V. On frequency band width of active sound insulation in single-mode waveguide	149
Petukhov Yu. V., Fridman V. E. Calculation of parameters of explosion wave reflected from water surface	150
Svet V. D., Yakovenko G. N. Spectrum studies of acousto-optical interaction in nematic liquid crystals with homeotropic orientation	151

Bibliography

Brekhovskikh L. M., Lysanov Yu. P. Review of the book «Ocean Acoustics»	154
---	-----

ПОПРАВКА

В статье Е. К. Грищенко «О РАЗЛИЧИИ В ОЦЕНКЕ ПАРАМЕТРОВ ПЬЕЗОПРЕОБРАЗОВАТЕЛЕЙ МЕТОДАМИ ЗАДАННОГО И САМОСОГЛАСОВАННОГО ПОЛЕЙ» (Акуст. ж., 1979, 25, 1, 44–52) на фиг. 1 по оси ординат отложена величина

$$\left| \frac{T}{v} \right| / \frac{e}{l}$$