

**НАЦІОНАЛЬНА АКАДЕМІЯ НАУК УКРАЇНИ
ІНСТИТУТ ГІДРОМЕХАНІКИ**

Свідоцтво про реєстрацію серія КВ No 2675 від 7 липня 1997 року

**НАУКОВИЙ ЖУРНАЛ
ЗАСНОВАНИЙ у 1998 році
ВИХОДИТЬ ЩОКВАРТАЛЬНО**

ТОМ 3 ◊ НОМЕР 3

РІК 2000

ЗМІСТ • СОДЕРЖАНИЕ

NATIONAL ACADEMY OF SCIENCES OF UKRAINE
INSTITUTE OF HYDROMECHANICS

Registration certificate, series KB No 2675 from July 7, 1997

SCIENTIFIC JOURNAL
FOUNDED in 1998
PUBLISHED QUARTERLY

VOLUME 3 \diamond NUMBER 3

YEAR 2000

CONTENTS

<i>C. Cattani, L. Toscano</i> Hyperbolic equations in wavelet bases	3
<i>I. V. Vovk, I. Yu. Goncharova</i> Analytical method for estimation of audio properties of stethoscopes . . .	10
<i>L. M. Gelman, S. V. Gorpinich, V. T. Shirkov</i> Adaptation in vibroacoustical free oscillation method . .	17
<i>A. V. Glushchenko, V. S. Sperkach, O. V. Yaroshchuk</i> Sound propagation in liquid crystal 5CB and 5CB based aerosil suspensions	26
<i>N. S. Gorodetskaya</i> Diffraction of the Rayleigh–Lamb waves on the interface of two joined elastic halfstrips of different widths	32
<i>V. T. Grinchenko, G. L. Komissarova</i> Properties of normal waves in the elastic–liquid cylindrical waveguides	44
<i>V. G. Kovalev, V. A. Pozdeev</i> On determination of profile for wave generated by extending cavity in fluid	56
<i>Yu. A. Kosevich, E. S. Syrkin</i> Surface absorption and resonant interaction of elastic waves with two- dimensional defect	62
<i>Peter V. Lukianov</i> Sound radiation by a disc in acoustically hard baffle	72
<i>V. T. Grinchenko</i> The twenty fifth International conference on respiratory sounds	78
Review of a scientific monograph by G. I. Sokol “Features of acoustical processes in infrasonic frequency range”	81
Author’s guide	82