
Scientific Journal
"MATHEMATICAL METHODS and PHYICOMECHANICAL FILDS"

Year 2003, Vol.46

Vol. 46, No.3, L'viv 2003

Dedicated to the 75-th birth anniversary of
Yaroslav Stepanovych Pidstryhach
academician of NASU

CONTENTS

Polishchuk V. M., Ptashnyk B. Yo.

Problem with periodic in time variables conditions for weakly nonlinear equations

7

Ivasyshen S. D., Medynsky I. P.

Cauchy problem for $\vec{z}b$ -parabolic systems with degeneration on initial hyperplane

15

Kalenyuk P. I., Kohut I. V., Nytrebych Z. M.

Differential-symbol method of solving the nonlocal boundary-value problem for a homogeneous system of partial differential equations

25

Bodnar D. I.

Multidimensional generalizations of continued fractions

32

Kuchmins'ka Kh. Yo., Vozna S. M.

Multipoint formula based on associated continued fraction

40

Kovalenko L. G.

On some representation of negative order Cesaro means of double orthogonal series

48

Lopushansky O. V., Dmytryshyn M. I.

Approximation spaces between Banach space and exponential type vectors

54

Prytula M. M., Vorobyova O. V.

Cartan's connection construction and associated non-local finite-dimensional reductions on integral jet-submanifold for inverse modified dynamic Korteweg – de Vries system	61
<i>Popov G. Ya.</i>	
On one method for obtaining integral transforms using in construction precise solutions to mathematical physics boundary-value problems	74
<i>Rushchitsky J. J.</i>	
Features of development of the theory of elastic nonlinear waves	90
<i>Piddubniak O. P.</i>	
Sound radiation by elastic circular cylinder rotating around its axis with variable angular velocity	106
<i>Danoyan Z. N.</i>	
Plane magnetoelastic waves in anisotropic perfectly conducting media	116
<i>Bozhydarnyk V. V., Halaziuk V. A., Laba V. V., Sulym G. T.</i>	
Nonclassical model of planar deformation of solid with gap under transverse displacement	121
<i>Chekurin V. F.</i>	
Mathematical problems of tensor fields tomography in solids with residual stresses	132
<i>Kiselev M. I.</i>	
Role of phase and phase methods in the theory and its applications	149
<i>Savenko P. O.</i>	
Structure of solution to microstrip antenna synthesis according to given amplitude directivity pattern	151
<i>Andriychuk M. I.</i>	
Linear antenna array synthesis, consisting of waveguide radiators	166
NEW ITEAMS AND INFORMATION	
<i>Sulym G. T., Turchyn I. M.</i>	
The 5 th Ukrainian-Polish science symposium "Current problems of the mechanics of nonhomogeneous structures"	