Number 2

2006

## RUSSIAN MATHEMATICS (Iz. VUZ)

## Pages Russian/English

Criterion of existence of eigenfunctions of spectral Darboux–Protter problems for a multidimensional Euler–Darboux–Poisson equation. S.A. Aldashev	1
-	_
Three difference equations in a plane with a T-shaped cut. F.N. Garif'yanov11	9
Solution of the Lame wave equation in domains with piecewise-smooth boundaries. I.T. Denisyuk	13
Finitely determined singularities of functions generated by unsolved integration. V.R. Zachepa	24
Estimate of the error of the method of average functions in the problem of numerical differentiation of a noisy function. G.G. Skorik	33
Formation of a nonhomogeneous profile of a stream of a viscous fluid at the entrance region of a cylindrical channel. I.V. Chernyshev	40
Subordination chains and their application to the modeling of the process of cavities growth. E.A. Shirokova	47
The Richardson method for increasing the accuracy of grid solutions of singularly perturbed elliptic equations of convection-diffusion. G.I. Shishkin	55
$L_p \rightarrow L_q$ - estimates for the twisted convolution operator, whose kernel has singularities on a sphere and at the origin of coordinates. A.N. Karapetyants and V.A. Nogin	69