

CONTENTS

Mathematics

Goryainov V.B., Goryainova E.R. Sign Test for Hypothesis about the Order of Equation in Moving Average Model	4
Kalinkin A.V. Limit Theorems for Random Walk in a Half-Plane with Jump across the Border	16
Gurchenkov A.A., Esenkov A.S., Tizik A.P., Tsurkov V.I. Convex Matrices and Multidimensional Knapsack Problem of Generalized Ladder Structure.....	32
Dikusar V.V., Zasukhin S.V. Application of Fast Automatic Differentiation in the Soil Surface Evaporation Problem	42

Mechanics

Gorbachev V.I. Engineering Resistance Theory of Heterogeneous Rods made of Composite Materials.....	56
Dimitrienko Yu.I., Bogdanov I.O. Finite-Element Method for Three-Dimensional Problems of Elastic Structures Buckling Theory	73
Kuzmina K.S., Marchevsky I.K. High-Order Numerical Scheme for Vortex Layer Intensity Computation in Two-Dimensional Aerohydrodynamics Problems Solved by Vortex Element Method	93

Physics

Kirillov A.A., Savelova E.P. Dark Matter as Fractality Effect of Topological Space Structure	110
---	-----

Informatics, Computer Engineering and Control

Belinskaya Yu.S. Solution to Point-to-Point Steering Problem for Constrained Flat System by Changing the Flat Output	122
Korobets B.N. Models for Technology Programmes within an Intellectual Property Management System	135
Index of Publications for 2016	143