

IZVESTIYA VUZOV. SEVERO-KAVKAZSKII REGION

Reg. No. 011019
Of the Committee of the Press of the Russian Federation
Scientifically-educational and applied magazine
Was founded in 1973.
Period is 4 numbers per a year
№ 1 (185) 2015.

NATURAL SCIENCE

CONTENTS

MATHEMATICS, MECHANICS	<i>Vagabov A.I.</i> A Spectral Problem for a Differential Beam Fourth Order with Fourfold Characteristics and Boundary Conditions of the Decaying Type.....	5
	<i>Galaburdin A.V.</i> Application of a Method of the Boundary Integrated Equations to the Decision of Problems on Moving Loading.....	9
	<i>Grezin V.S., Novosiadlyi V.A.</i> On the Problem of Social Network User Age Prediction....	12
	<i>Zinchenko A.B.</i> The Solutions of Dual Simplex Games.....	19
	<i>Kamalian R.Z., Kamalian S.R.</i> Some Results of the Research Explosions of Cylindrical Charges in Two-Layer Medium.....	24
	<i>Norkin M.V.</i> Dynamics of Internal Free Border of Liquid on Small Times at Vertical Impact of the Circular Cylinder Which is Completely Shipped in Liquid.....	30
	<i>Pavlov I.V., Nazarko O.V.</i> Theorems on Deformed Martingales: Riesz Decomposition, Characterization of Local Martingales and Computation of Quadratic Variations.....	36
	<i>Pozharskii D.A., Zamulina T.G.</i> Contact Problem with Friction Forces for a Transversely Isotropic Half-Space.....	43
	<i>Poliakova N.M.</i> The Study of the Generalized Model of the Formation of the pH-Gradient for Isoelectrofocusing.....	45
	<i>Ryzhkin A.I., Usov A.B.</i> Gernmeyer's Games at Compulsion in a Three-Level Control System of the Ship's Water Ballast.....	50
	<i>Chegolov A.P.</i> Integrals and Derivatives of Fractional Order in Holder Classes on the Rectangle.....	56
BIOLOGICAL SCIENCE	<i>Morozova M.A., Fedorov Iu.A.</i> The Role of Sulphite-Reducing Clostridia in the Pathology of Fishes.....	60
	<i>Shmaraeva A.N., Shishlova Zh.N., Fediaeva V.V.</i> On New Findings <i>Galium volhynicum</i> Pobed. and <i>Cymbochasma borysthenica</i> (Pall. ex Schlecht.) Klok. & Zoz in the Rostov Region.....	67
ECOLOGY	<i>Bakaeva E.N., Nikanorov A.M.</i> Biological Approaches to Assessment Ecotoxicological State of Aquatic Ecosystem.....	72
	<i>Kryzhevich M.I., Zubkova P.C., Shipkova G.V.</i> Radilov Raised Bog: Present Situation and Geoecological Problems.....	84
	<i>Petrenko I.N.</i> Assessment of the Extent of Mass Transfer Fluids and Chemical Elements in the Developed Gas Condensate Deposits.....	89
MEDICINE	<i>Alabut A.V., Sikilinda V.D., Chesnikov S.G., Timoshenko M.E., Skarzhinskii A.A., Khammad M.O.Kh.</i> Analysis of Complications Total Knee Replacement.....	96
	<i>Krukier I.I., Degtiareva A.S., Narezhaia E.V., Avrutskaia V.V., Nikashina A.A., Kravchenko L.V., Kukhta O.I.</i> Nitrogen Metabolism of Placenta and Amniotic Fluid in Normal Pregnancy Development.....	101

<i>Chagai N.B., Bakulina E.G.</i> Metabolic Status of Patients with Hypoestrogenic Anovulation on the Long-Term Hormone Replacement Therapy.....	106
<i>Shikhliarova A.I., Men'shenina A.P., Moiseenko T.I., Ushakova N.D.</i> Reflective Dynamics of General Adaptive Reactions at Plasmapheresis and Immunotherapy During Drug Treatment of Cervical Cancer.....	114

OUR PERSONS

<i>Vorovich L.S.</i> Vladimir Isaakovich Minkin (on the 80th Anniversary)	119
---	-----