

TABLE OF CONTENTS

SYSTEM ANALYSIS, CONTROL AND INFORMATION PROCESSING

S. V. Kiselev System analysis of deformation processes of aramid textile cords for special purpose	5
V. I. Wagner, M. A. Egorova, I. M. Egorov Computer modeling, digital prediction and system analysis of deformation processes of aramid textile materials	11
A. A. Kozlov System analysis of complex relaxation-strain processes of polyamide fabrics for parachutes domes.	16

MACHINES, AGGREGATES AND TECHNOLOGICAL PROCESSES

A. A. Romanovich, E. G. Pakhomov, M. O. Dyadin, G. N. Averyanov, M. A. Romanovich Determination of the power of a mixer with blades having a working surface formed by a guide curve	21
V. S. Romanenko, K. A. Yudin Influence of circulation rate in a horizontal roller mill when obtaining marble sand	29
M. S. Chepchurov, B. S. Chetverikov, N. S. Ljubimyj, A. S. Luk'janov About characteristics of automatic lines for optical sorting of fruits and vegetables	34

PRODUCT QUALITY CONTROL. STANDARDIZATION. ORGANIZATION OF PRODUCTION

K. V. Kaisheva, E. A. Kraikina, A. I. Bogdanov Evaluation of the parameters of the distribution law of the weighting coefficients of individual indicators of product quality	41
G. I. Korshunov, A. Yu. Tumanov, E. S. Yarmonova A method for reducing the risks of projects to create systems to ensure the stability of the functioning of instrument-making facilities	46
K. V. Kaisheva, E. A. Kraikina, A. I. Bogdanov Investigation of the law of distribution of consumer estimates of quality indicators of light industry products	54
M. B. Sukhanov, M. D. Dudnik Statistical study of data on the time of neural network generation of images for textile design	58
A. I. Bogdanov, B. P. Kasatkin Mathematical model of risk management of industrial enterprise project	64
L. N. Nikitina, E. A. Kraikina Prospects for the development of light industry enterprises of the russian federation	68
E. R. Martynets, A. V. Kornienko, V. A. Leventsov Process model of design and technological preparation of manufacturing with a focus on digital twin technology	72

A. S. Tur	
Methodology for estimating the value of inauthentic components under uncertainty	79
N. K. Popov, P. A. Shikov, Yu. A. Shikov	
Assessment of economic efficiency at different stages of implementation of an innovation project in the process of digital transformation of an industrial enterprise	82

**TECHNOLOGY AND PROCESSING OF SYNTHETIC
AND NATURAL POLYMERS AND COMPOSITES**

V. A. Pechilin, N. P. Midukov, M. A. Midukova	
The modern level of foreign research on the two-stage dry defibration and deinking of recovered paper	93
M. A. Litvinov, I. V. Anisimov, M. V. Kuznecov	
Neural networks in assessing the quality of paper and cardboard	102
N. P. Midukov, V. S. Kurov, M. A. Zilbergleit	
Microstructure research to evaluate the printing properties of paper and cardboard	105
I. V. Porotikova, N. V. Evdokimov, D. V. Serbul	
Manufacture of equipment parts for the production of cast containers made from waste paper	109
N. P. Midukov, N. V. Evdokimov	
Overview of extruder designs for the layered formation of products based on liquid wood-polymer composites	113

TECHNOLOGY OF PRODUCTION OF TEXTILE AND LIGHT INDUSTRY PRODUCTS

A. V. Demidov, A. G. Makarov	
Deformation-restoration processes of polymer textile materials and their digital prediction	119
N. V. Pereborova	
Digital criteria of reliability of forecasting deformation and relaxation processes of polymer materials	124
Authors list	130
Information for authors	136