

## Content

### URBAN CONSTRUCTION AND MANAGEMENT

Osetrin M. M.	Ways of Further Development of Training of Professionals with Higher Education in the field of «Urban Construction and Economy» .....	3
Tkachuk O. A., Yaruta Y. V.	Urban Assessment of Rain Runoff Regulation Structures in the Conditions of Urban Development .....	8
Mischenko O. D., Cherednichenko P. P.	On Increasing Awareness in the Field of Urban Planning and Spatial Planning .....	20
Hasenko A. V., Novytskyi O. P., Pents V. F.	Reconstruction of Multi-Storey Industrial Buildings for Affordable Housing with The Use of Resource-Saving Construction Solutions .....	27
Osetrin M. M., Kostenko N. P.	Value of the Indicator of Energy Consumption of the Traffic Flow in the System for Assessing the Levels of Service of the Road Network of the City .....	41
Milash T. A., Lipianin V. A., Struk Zh. M.	Research of Green Recreational Space in Medical Institutions on the Example of World Experience .....	50
Zavalnyi O. V., Kolosha M. S.	Form-Based Codes as a Method of Regulating the Development of Urban Space .....	60
Homon S. S., Matviiuk O. V., Savchuck S. M., Vereshko O. V., Kulakovskiy L. Y.	Influence of Aggressive Environment on Strength And Deformable Indicators of Continuous Timber of Coniferous Breeds .....	69

Osetrin M. M., Tarasiuk V. P., Bespalov D. O., Dorosh M. I.	Use of Transport Macro Modeling in the Educational Process ..... 81
Pilipaka L. M., Andrusyk A. O.	General Approaches to the Light Personal Transport Infrastructure Development ..... 88
Petrunia O. M.	Criteria for the Humanized Urban Space Formation ..... 97
Tryhub R. M.	Features of Underground Space Development ..... 106
Zyhun A. Yu., Galinska T. A.	Influence of the Pandemic Covid-19 on the Development of Transport Infrastructure of the City ..... 114
Tatarchenko H. O.	Air Protection Objects of City Territories ..... 126
Shevchuk O. V.	Study of Formation of the Network of Green Corridors in the Urban Planning Structure .... 136
Shylova T. O.	Latest Approaches to the Improvement of City Streets ..... 146
Sokolenko V. M., Holodnov O. I., Filatiev M. V., Sokolenko K. V.	Tasks and Conditions of Reconstructive Transformation of the Urban Area of the Lysychansk-Severodonetsk Agglomeration for Sustainable Development ..... 157
Kolesnykov A. V., Oliinyk T. P., Makovetska E. A., Dmytrenko M. P.	Influence of the Structure of Ingredient Effects on Sources of Decentralized Water Supply ..... 171

Voloshchuk V. A., Haponiuk M. M., Yushchuk B. V.	Scientific Principles of Calculation and Optimization of Design, Technical and Technological Solutions for the Management of Natural and Technical Facilities on an Ecological and Economic Basis ..... 184
--	---

### **ENGINEERING SCIENCE**

Nikolaichuk V. V., Tymeichuk O. Y., Kostiuk O. P.	Calculation for Strength and Rigidity of Details of New Construction of Joint of Variable Rigidity Methods of the Theory of Elasticity ..... 198
---	--

### **MINING**

Korniienko V. Ia., Semeniuk V. V.	Analysis of Existing Technologies of Amber Production in the Rivne-Volyn Region..... 209
--------------------------------------	--

### **APPLIED MATHEMATICS, COMPUTER SCIENCE AND COMPUTER ENGINEERING**

Cozac Eugeniu	Mechanisms for Implementing the Intellectual Functions of Robotics Using Machine Learning ..... 217
---------------	---

### **CIVIL SECURITY AND OCCUPATIONAL HEALTH**

Buchynskiy O. A., Fylypchuk V. L., Kuskovets S. L., Nos M. V., Tymkina O. L.	State of Occupational Injury on Business Entities of the Rivne Region and Directions of Its Improvement ..... 233
--	---

### **ELECTRICAL ENGINEERING AND AUTOMATION**

Sydorchuk B. P., Naumchuk O. M., Mazurek P.	Modeling Horizontal Soil Heat Pumps ..... 250
---	---