

CONTENTS

1	Onyshchenko Volodymyr, Zotsenko Mykola, Vynnykov Yuriy, Kharchenko Maksym, Lartseva Iryna Improving proposals for design standards of vertical cylindrical steel tanks for oil and oil products storage	5
2	Barchukova Tetiana Work piles - columns with soil under constant influence of vertical and cyclically approximated horizontal loads	19
3	Dmytriiev Dmytro, Vasylichuk Serhiy, Yaremchuk Mariya, Petrovanchuk Yulia Experience of geosentetic materials use in drainage system device	24
4	Grishin Andriy, Siplivets Oleksandr Flexible oneanchor retaining building models calculation results comparing with experimental data	31
5	Iegupov Konstantin, Meltsov Gennady, Iegupov Vyacheslav, Bezushko Denys Dynamic Calculation of the Pile Supported Wharf	37
6	Iegupov Konstantin, Rudenko Sergey, Nemchuk Oleksiy Marine transportation-technological systems safety and development	45
7	Karpushyn Serhii Soil cement as a constructive material of anaerobic bioreactor corps	50
8	Kovalskyy Ruslan The high-rise building foundation with developed stylobate part design features using piles tests data	59
9	Krysan Volodymyr, Krysan Vitaliy Jet and jet-mixing grouting	68
10	Kuzlo Mykola Mathematical modelling of soil massifs strained-deformed state under soil water level decreasing	73
11	Mitinskiy Vasiliy, Chepelev Valentyn, Vynnykov Yuriy, Lartseva Iryna, Aniskin Aleksej Overall stabilization of underground workings in limestone-shells	79
12	Mitinskiy Vasiliy, Novskiy Oleksandr, Novskiy Vasiliy Experience of using Odessa region limestones as foundation base	85
13	Moskalina Ivan, Laschenko Yuriy, Klimenko Andriy, Moskalina Viktor Peculiarities of residential buildings deformation with connected block-sections collision as a result of uneven settlement on collapsible soils	91
14	Novytskyi Oleksandr, Nesterenko Tetiana Economic efficiency of vibroreinforced soil-cement piles implemented in construction	97
15	Samorodov Oleksandr, Ubyivovk Artem Kupreichyk Anna, Naydenova Victoria New design of a tapered bored pile for installation in structurally unstable soils	102
16	Samorodov Oleksandr, Khrapatova Iryna, Krotov Oleg, Tabachnikov Sergii Review of design solutions for nominally strip (continuous) foundations	108

17	Shuminskiy Valerii, Stepanchuk Serhiy, Dombrovskiy Yaroslav, Kostetzkay Svitlana, Kostochka Yegor Influence of residential complex construction on the condition of the sewage collector and the underground water supply system in Kyiv on A. Barbyusa st.	115
18	Slyusarenko Yuriy, Tytarenko Volodymyr, Shuminskiy Valerii, Vynnykov Yuriy Designing of buildings and structures at land sliding and slide hazardous segments of slopes	124
19	Syvko Ivan, Syvko Rudolf, Selimov Anatoliy, Tytarenko Volodymyr, Zharko Liudmyla, Fesenko Oleg Peculiarities of structures inspection by the example of a three-chamber navigation lock in Zaporizhzhia city	132
20	Timchenko Radomir, Krishko Dmytro, Savenko Volodymyr Experimental research of retaining walls with structural surface	139
21	Timchenko Radomir, Krishko Dmytro, Khoruzhenko Iryna Mathematical modeling of the folded foundation interaction with the base by varying the structure stiffness	145
22	Tugaenko Iurii, Tkalic Anatoliy, Shekhovtsov Ihor, Petrash Svetlana Resistance of tubular piles shear silk along surfaces	151
23	Zotsenko Mykola, Vynnykov Yuriy, Shokarev Yevheniy, Shokarev Andriy Reinforcement of the foundation base of the building with horizontal elements of increased rigidity	156
24	Mykhailovska Olena Research of microelements content in the stratal waters	161
25	Emeljanova Inga, Chayka Denys, Bondar Viktor, Virchenko Viktor Concrete pump working capacity determination in the composition of small-sized technological set equipment for the wet method gunite work	166
26	Korobko Bogdan, Vasyliiev Oleksiy, Rohozin Ivan, Vasyliiev Ievgen Determination of the pressure in the cylinder of the automotive internal combustion engine by the installation of tensometric sensors	171
27	Vasyliiev Oleksiy, Rohozin Ivan, Shapoval Mykola, Orysenko Oleksandr The definition of the direction of forces arising during the interworking of a car's steer wheel with chassis dynamometer	176
28	Virchenko Viktor, Shapoval Mykola, Skoryk Maxym, Ladur Vladyslav Hydraulic stand for testing automatic seats model development	180
29	Virchenko Viktor, Skoryk Maxym, Kryvorot Anatolii, Meshko Oleksandr Streamlining influence on the long-haul trucks with an installed movable roof fairing performance properties teoretical studies	187
30	Bidakov Andrii, Raspopov Evheniy, Pustovoiitova Oksana Specificity of strength calculation for glued-in steel rods in LVL with unidirectional veneer	196