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THE BEST NAU SCIENTIFIC PUBLICATIONS IN THE FIELD OF CONSTRUCTION

The article presents a catalog of the best scientific-methodological publications: textbooks, manuals, monographs, among them those in the English-language, and two- and three-language dictionaries, created by the team of authors of NAU lecturers, including the content of the publications and the circle of target audience and users – lecturers and students of aviation construction specialties.

The article is dedicated to the 50th anniversary of the founding of the Department of Airports of the Faculty of Airports of the National Aviation University (1969-2019). The Department of Airport and Highway Reconstruction together with the Department of Foreign Languages (prof. Akmal'dinova O.M.) has developed a catalog of the best scientific publications of NAU in the field of construction for the last 5-10 years, most of which won prizes in the competition for the best monographs, textbooks and manuals of NAU. The catalog books were supported by the Academy of Civil Engineering of Ukraine, the Academy of Engineering of Ukraine and the Transport Academy of Ukraine.

Key words: *fire hazard, high-rise building, fire resistance, tires disposal, hydro-jet technology, helipad design, reinforced concrete frames, introduction to construction, water supply and drain, reinforced concrete and stone structures.*

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НАЙКРАЩІ НАУКОВІ ПУБЛІКАЦІЇ НАУ В БУДІВНИЦТВІ

У статті представлений каталог найкращих науково-методичних видань: підручники, посібники, монографії, серед них англomовні, та дво- та тримовні словники, створені колективом авторів викладачів НАУ, включаючи зміст публікацій та коло цільової аудиторії та користувачів – викладачів та студентів авіаційних будівельних спеціальностей.

Стаття присвячена 50-річчю заснування кафедри аеропортів факультету аеропортів Національного авіаційного університету (1969-2019). Кафедра реконструкції аеропортів та автошляхів спільно з кафедрою іноземних мов (проф. Акмалдінова О.М.) розробили каталог кращих наукових публікацій НАУ в галузі будівництва за останні 5-10 років, більшість з яких отримали призові місця в конкурсі на кращі монографії, підручники та посібники НАУ. Книги каталогу підтримували Академія будівництва України, Інженерна академія України та Транспортна академія України.

Ключові слова: *пожарна безпека, висотна будівля, вогнестійкість, утилізація покрешок, гідро реактивна технологія, проектування вертолітного майданчика, залізобетонні каркаси, впровадження в будівництво, водопостачання та водовідведення, залізобетонні та кам'яні конструкції.*

Наука будується з фактів,
як будинок будується з цегли.
Однак нагромаджене фактів
не є наука, так саме як
купа цегли не є будинок.
Анрі Пуанкаре

INTRODUCTION

The Department of Airports and Highways Reconstruction together with the Department of Professional Foreign Languages developed a catalog of the best scientific publications of National Aviation University (NAU) in the field of construction for the last 10 years, recommended by the Ministry of Education and Science of Ukraine and supported by the Ukraine Academy of Construction, the Academy of Engineering and the Transport Academy of Ukraine. Most of them won prizes in the NAU competition for the best monographs, textbooks, manuals and dictionaries. The publications are dedicated to the 50th anniversary of the foundation of the Airports Department of the Faculty of Airports (1969–2019).

The catalog includes educational-methodological sources for higher technical education institutions, including those prepared in English, on the main courses of training programs for graduates of bachelor and master education qualification levels majoring in 192 “Construction and Civil Engineering”, specializations: “Highways and Airfields”, “Industrial and Civil Construction”.

1. MAIN PART



1. FIRE HAZARD AND FIRE RESISTANCE PROBLEMS OF HIGH-RISE BUILDINGS: Monograph. For scientific and engineering specialists, research, design, construction organizations employees, as well as PhD and graduate students of construction universities and faculties (1st place in the competition for the best NAU monographs, 2019).

Part 1. /11/. Experience in designing, construction and operation / V.M. Pershakov, A.O. Belyatinsky, E.A. Bakulin, V.M. Bakulina, G.I. Bolotov, I.O. Popovich. Under prof V.M. Pershakov's general editorship. – К. : NAU, 2016. – 104 p.

Part 2. /10/. Causes and consequences of high-rise buildings destruction by fire. / V.M. Pershakov, A.O. Belyatinsky, E.A. Bakulin, G.I. Bolotov, I.O. Popovich. Edited by prof. V.M. Pershakov. – К. : NAU, 2017. – 272 p.

The causes and consequences of high-rise buildings destruction from fire, and the analysis of firefighting operations and rescuing people from high-rise buildings during a fire are considered. An overview of publications and regulations on combating fire hazard and fire resistance of high-rise buildings is given.

Part 3. /6/. Structural schemes and features of three-dimensional spatial structures of high-rise buildings / V.M. Pershakov, A.O. Belyatinsky, E.A. Bakulin, G.I. Bolotov, I.O. Martynenko, He Yulin. Under the general editorship of professor V.M. Pershakov and associate professor E.A. Bakulin. – К. : LLC “NVI” Slavutyeh-Delfin”, 2018. – 140 p.

Review of publications on the world experience in designing high-rise buildings is given. The evolution of structural systems and schemes: from high-rise buildings to ultra-high skyscrapers of today, capacious-spatial structures and architectural and constructive decisions are analyzed.



2. UTILIZATION OF TIRES BY THE HYDROABRASIVE RUBBER DESTRUCTION METHOD: Monograph /7/. A.A. Belyatinsky, V.M. Badakh, Yu.S. Golovko, V.M. Pershakov. Under prof.

V.M. Pershakov general editorship. – K.: LLC NVF “Slavutych-Dolphin”, 2018. – 148 p.

The results of development of environmentally friendly, highly efficient method and equipment for utilization of worn car tires on the basis of rubber hydro abrasive destruction are given. The principle of operation of the equipment is based on the use of the effect of high-pressure water jet force, combined with the cutting work, performed by abrasive particles moving in the flow.

The development of a set of equipment for purification and regeneration of polluted water to reuse it as water supply for liquid jet technologies equipment and other production equipment of industrial enterprises is also given.

Intended for scientific and engineering specialists, employees of research design and construction organizations, as well as PhD and graduate students of construction universities and faculties.

3. THE LATEST HYDROJET TECHNOLOGIES FOR REPAIR WORKS ON ROADS: monograph /9/ A.A. Belyatinsky, V.M. Badakh, V.M. Pershakov Edited by prof. V.M. Pershakov. – Kyiv: Slavutych-Delfin Publishing House, 2017. – 100 p.

Development of equipment, working tools and devices for surfaces hydrojet cleaning and technologies of their use for removing layers of various physical nature and chemical structure during repair works in municipal economy are considered. The results of testing the working tools and devices developed for hydrojet cleaning of surfaces are given. A mobile hydrojet installation technical project for repair works in municipal services is developed.

Intended for scientific and engineering specialists, employees of research, design and construction organizations, as well as PhD and graduate students of construction universities and faculties.

4. DESIGN OF VERTODROME COATINGS: monograph /4/ V.M. Pershakov, He Yuilin, A.A. Belyatinsky, T.V. Bliznyuk. Under prof. V.M. Pershakov's editorship 2nd ed. – K. : LLC NVF “Slavutych-Dolphin”, 2019. – 140 p.



The monograph presents the general principles of designing helipads in different conditions. Attention is paid to the use of modern materials as a replacement for traditional cement concrete coating. These structures will allow, with minimal time and money, to build helipads in difficult terrains and on the roofs of buildings.

Intended for scientific and engineering specialists, employees of research, design, construction, road and airfield organizations, as well as PhD and graduate students of higher educational institutions and faculties.

5. VERTODROMES: monograph /23/ V.M. Pershakov, A.O. Belyatinsky, T.V. Bliznyuk, N.G. Semiroz. – K.: NAU, 2014. – 356 p. (2nd place in the competition for the best NAU monograph, 2015).

The monograph describes the world experience of using modern helicopters and heliports, the role of Ukraine in the development of helicopter transport, development prospects of heliport designing in Ukraine. The features of calculation, design methods and maintenance of heliports and helipads are presented. Different design guides and requirements on heliports and helipads construction and maintenance are given.

The monograph is intended for research and engineering-technical assistants, employees of research, design and construction organizations, as well as for PhD and graduate students of higher construction education institutions and faculties.



6. EFFECTIVE REINFORCED CONCRETE FRAMES WITH ELEMENTS OF VARIABLE SECTION: monograph /16/ V.M. Pershakov. Saarbrücken, Germany: Rating publishing house “Palmarium Academic Publishing”, 2016. – 544 p.

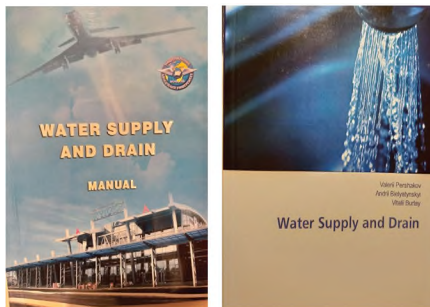


7. INTRODUCTION TO CONSTRUCTION: manual /15/ V.M. Pershakov, A.O. Belyatinsky, O.V. Chemakina, I.L. Mashkov, O.L. Boyko, K.V. Krayushkina, K.V. Lysnitskaya – K. : NAU, 2016 – 122 p. Under prof. V.M. Pershakov’s general editorship.

The manual is intended for students majoring in construction specialties: “Roads and airfields”, “Industrial and civil construction”, who take the “Introduction to construction” course. The main construction provisions and definitions, a brief history of development and stages of engineering development in the field of construction are given. The areas of construction activity, the issues of construction

specialists training and development of higher education in the field of construction integration into the international educational space are considered.

It is recommended for studying and consolidating the main provisions of the theoretical course, students' self-study and conducting practical classes in the discipline.

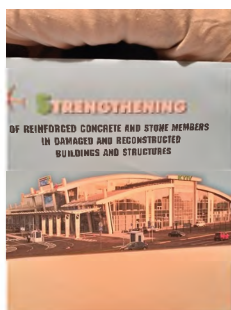


8. WATER SUPPLY AND DRAIN: manual /14/ V.M. Pershakov, A.O. Belyatynsky, K.V. Lysnytska. – K. : NAU, 2016. – 164 p. (2nd place in the competition for the best NAU textbooks and manuals, 2017).

9. WATER SUPPLY AND DRAIN: manual /3/ V.M. Pershakov, A.O. Bieliatynskyi, V.A. Burlay. LAP LAMBERT Academic Publishing, 2019. – 230 p., 2nd edition, supplemented.

The manual provides lectures and guidance material for performing eight laboratory works, two homework tasks as well as test questions for defending laboratory works, test questions and tasks for module control on “Water supply and drain” course. Intended for students of 192 specialty “Construction and Civil Engineering”, specialization “Industrial and Civil Construction”.

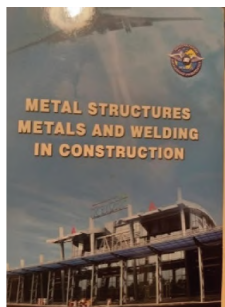
10. REINFORCED CONCRETE AND STONE STRUCTURES: monograph /17/ V. Pershakov, A. Bielyatynskyi, O. Pilipenko. – Saarbrücken, Germany: Scholars Press, 2016. – 394 p. (2nd place in the competition for the best NAU monographs, 2017).



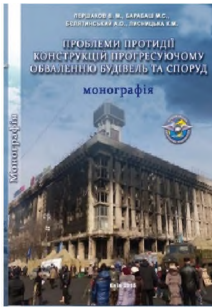
11. STRENGTHENING OF REINFORCED CONCRETE AND STONE MEMBERS IN DAMAGED AND RECONSTRUCTED BUILDINGS: visual aids manual /20/ A.Ya. Barashikov, O.I. Lapenko, V.M. Pershakov, A.O. Belyatinsky, P.S. Bilokurov. – K.: NAU, 2018. – 128 p. Edited by prof. Pershakov V.M.

The manual constitutes a set of schemes and drawings on strengthening reinforced concrete and stone members and structures and stabilizing foundation bed soil. It presents a summary of technical solutions on strengthening slabs, beams, columns, walls, partitions, beds and foundations (over 500 variants) having found a wide application in buildings repair and reconstruction. Details of reconstruction and rehabilitation of separate parts and elements of buildings are considered as well. Drawings are accompanied by explanatory notes.

The manual is intended for students of construction institutes as well as for design, construction and maintenance and operating staff.



12. METAL STRUCTURES IN CONSTRUCTION: manual /18/ A. Bielyatynskiy, V. Pershakov, V. Ivannikova. – Saarbrücken, Germany: Scholars Press, 2015. – 210 p.



13. PROBLEMS OF DESIGNS COUNTERACTING PROGRESSIVE COLLAPSE OF BUILDINGS: monograph /21/ V.M. Pershakov, V.S. Barabach, A.O. Bielyatynskiy, Lisnitska – K. : NAU, 2015. – 456 p. (3rd place in the competition for the best NAU monographs, 2016).

An overview of publications and regulatory documents on combating accidents involving progressive destruction of high-rise building skeletons is given in the monograph. The problems of research on survivability, reliability, stability, security, risk assessment, technical condition of buildings and structures skeletons are identified.

The features of the existing calculation methods, design frameworks of high-rise buildings and structures are outlined on the basis of progressive collapse risk. Applicable guidelines and regulations on the progressive collapse of buildings are considered.

The monograph is intended for researchers, engineers and technicians, design and construction companies operating staff, and students of higher education institutions and faculties.



14. RESEARCH ON TRANSPORT FLOWS IN THE ASPECT OF TRAFFIC CONGESTION: monograph /22/ V.M. Pershakov, A.A. Belyatinsky, O.V. Stepanchuk, R.V. Krotov. – K. : HAY, 2015. – 176 p.

General characteristics and analysis of the problems of mathematics are given. Mathematical modeling of transport flows, theoretical principles of researching traffic flow parameters in the aspect of traffic congestion are substantiated. Specifics of traffic flow and congestion mathematical modeling are stated. The method of detection, calculation and assessment of congestion in the traffic flow is presented.

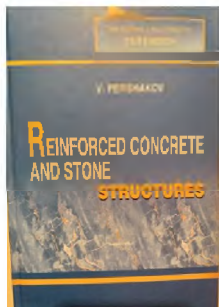
The monograph is designed for scientific and engineering specialists, employees of research, design, construction, road

organizations, as well as PhD and graduate students of construction universities and faculties.

15. METAL STRUCTURES. METALS AND WELDING IN CONSTRUCTION: manual /25/ A. Belyatinsky, V. Pershakov, OI. Lapenko, O. Pilipenko, V. Ivannikova, N. Kuzhel. – K. : HAY, 2013. – 208 p. (Recommended by the Ministry of Education and Science of Ukraine as the manual for students of higher education institutions taking the training course in “Civil Engineering” (№ 1/11-9776 of June 10, 2013). Took the 1st prize in the competition for the best NAU textbooks, 2015.

The manual provides main information about metals (steels and aluminum alloys), their physical and mechanical properties, resistance and calculation of metal structures for strength, stability and rigidity. Metallic structures, produced with the help of electric welding are considered.

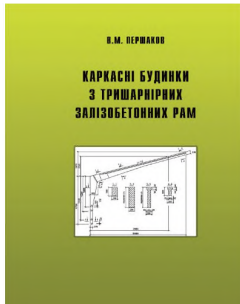
Intended for university students of aviation and construction specialties as well as engineers designing buildings and operating airports, industrial and civil constructions. Approved by the Ministry of Education and Science Ukraine



16. REINFORCED CONCRETE AND STONE STRUCTURES: textbook /26/ V.M. Pershakov. – K. : NAU, 2009. – 304 p. Recommended by the Ministry of Education and Science of Ukraine as the textbook for students of higher education institutions taking the courses in “Construction” and “Civil Engineering” (1.4/ 18-G-79 of January 10, 2009). Took the 2nd place in the competition for the best NAU textbooks, 2010; participated in the competition for the State Prize of Ukraine in the field of science and technology in 2018.

The textbook considers general information on materials (concrete, reinforcing steel, stone) and their physical and mechanical properties; basics of reinforced concrete and stone structures calculation for strength, rigidity, crack resistance and methods of their construction.

Intended for students of higher education institutions of aviation and construction profile, as well as specialists, masters in airport designing and construction, industrial and civil construction.



17. SKELETON-TYPE BUILDINGS OF THREE-LAYER REINFORCED CONCRETE FRAMES: monograph /27/ V.N. PERSHAKOV. – K. : NAU, 2007. –301p.

The monograph describes the experience of using three-layer reinforced concrete frames of 18- and 21-metres span in agricultural construction in Ukraine, Russia, Moldova, Kazakhstan and other countries. The effectiveness of their usage is analyzed and estimated.

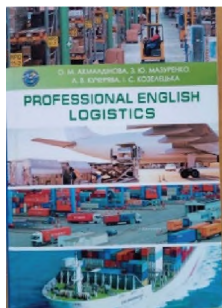
The features of calculation and construction methods, experimental investigations of three-layer reinforced concrete frames; technique of economic reinforced concrete constructions designing; designing multi-span and blocked frame skeletons; designing of roof structures, walls and foundations of skeleton-type buildings, frame skeletons of agricultural public building halls, and buildings and constructions of agricultural aviation airfields are presented.

The monograph is intended for research and engineering staff: technical assistants, employees of research, design and construction organizations, as well as for PhD and graduate students of higher construction educational institutes and faculties.



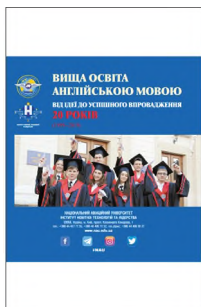
18. PROFESSIONAL ENGLISH. AIRPORT DESIGN AND MAINTENANCE: textbook / O.M. Akmaldinova, O.G. Shostak. – K. : NAU, 2012. – 312 p. Recommended by the Ukraine Ministry of Education and Science as a textbook for students of higher education institutions (№ 1/11-304 of 17.01.2011). Took the first prize in the NAU competition for the best textbooks and manuals, 2013.

Contains the basic terminology, authentic texts, a complex of communicative exercises and an English-Ukrainian terminological glossary. Intended for students of aviation higher education institutions majoring in construction – operation specialties.



19. PROFESSIONAL ENGLISH. LOGISTICS: manual / O.M. Akmal'dinova, Z.U. Mazurenko, L.V. Kucheriava, I.S. Kozeletska. – К. : NAU, 2015. – 416 p. Recommended by the Ukraine Ministry of Education and Science (№1/11–2645 of 17.02.2014). Took the first prize in the NAU competition for the best textbooks and manuals, 2020.

Intended for studying professionally oriented English, enriching the students' terminological vocabulary, developing their skills in translating and abstracting original professional literature, aimed at getting information needed for the future professional activity.



20. HIGHER EDUCATION IN ENGLISH (NATIONAL AVIATION UNIVERSITY) 20 years: 1999-2019. ESSAY. / V.M. Isaienko, K.O. Babikova, A.A. Tunik, Yu.A. Averyanova, O.M. Akmal'dinova, I.I. Gvozdetzky, T.V. Dudar, V. Yu. Ivannikova., V.M. Kazak, V.O. Kasyanov, M.P. Mukhina, T.A. Oleshko, V.M. Pershakov. Edited by prof. V.M. Pershakov. 2nd ed., supplemented – К. : NAU, 2019. – 134 p.

The historical essay presents the materials of education in English at NAU the structure of the Institute of Innovative Technologies and Leadership, the Center for Language Certification and English Language Education; rules of enrollment in English-speaking groups of students of 9 faculties of the university; history of the English Language Education Project; information on NAU graduates; innovative approaches to learning English; attestation and certification of bachelors, masters and teaching staff on obtaining

education in English; the list of specialties taught in English; curricula and programs in accordance with international and domestic requirements; student research activities; international activities; long-term prospects, strategy for the development of education in English; WEB-site, contacts; English-language educational and methodological publications.

Intended for English-speaking students, PhD and graduate students, scientists and lecturers of higher technical education institutions of Ukraine, as well as NAU graduates.



21. THEMATIC DICTIONARY OF AVIATION TERMINOLOGY (English, Ukrainian, Russian languages) / O.M. Akmaldinova, U.A. Averianova, L.V. Budko et.al. Under prof. O.M. Akmaldinova's editorship. – K. : NAU, 2013. – 692 p. Recommended by the Ukraine Ministry of Education and Science (№ 1/11–2448 of 25.03.2011). Took the first prize in the NAU competition for the best dictionary, 1917.

Represents corresponding terminological systems of the multi–aspect avia-tion field according to 44 basic topics and the most widely spread abbreviations.



22. THEMATIC DICTIONARY OF AVIATION BUSINESS LEXIS IN AVIATION / O.M. Akmaldinova, O.O. Pysmenna, N.G. Semeniuk. – K. : NAU, 2014. – 616 p. Recommended by the Ukraine Ministry of Education and Science (№ 1/11-8091 of 28.05.2012). Took the first prize in the NAU competition for the best dictionary, 2019.

Contains about 16000 words and terminological word combinations on the basic areas of production organization in aviation. Intended for a wide circle of scientific and engineering workers, lecturers, translators and students of aviation higher education institutions.

CONCLUSION

The offered publications are the basic educational material for methodological support of courses, taught by the graduation departments: the department of Airports and Highways Reconstruction and the department of Construction Computer Technologies. Publications in the English-language are of particular significance for academic groups studying under the programs of education in English. The given catalog of scientific and methodological literature can be effectively used in online training of senior and PhD students. The above English-language sources are also useful to form the construction specialties graduates' readiness for professional mobility, the 192 specialty "Construction and Civil Engineering", specializations: "Highways and Airfields", "Industrial and Civil Construction" among them.

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3. Water supply and drain. Manual. LAP LAMBERT Academic Publishing, 2019. – 230 p. Valeriy Pershakov, Andrii Bieliatynskiy, Vitalii Burlay.
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