

To check the adequacy of the mathematical model and the genetic algorithm for optimising the operational planning of loading and unloading mechanisms, a program in the Java language was developed. Numerical experiments showed an average increase in the efficiency of handling containers and specialised rolling stock by 9,95 %. The greatest reduction in duration of loading and unloading operations can be achieved in the case of handling a public container train.

Taking into account the number of PRM owned by the Central Directorate for Management of the Terminal and Warehouse Complex, a branch of JSC Russian Railways, designed to work with large-capacity containers, the estimated annual economic effect from reducing PRM electricity consumption can amount to 65,2 million rubles/year.

NEW BOOKS ON TRANSPORT AND TRANSPORTATION

The list of titles in Russian is published in the first part of the issue

Список на русском языке публикуется в первой части данного выпуска

Balakin, V. V. Design of the urban passenger transport system: Study guide [*Proektirovanie sistemy gorodskogo passazhirskogo transporta: Ucheb. posobie*]. Volgograd, VolgSTU publ., 2023, 106 p. ISBN 978-5-9948-4645-2.

Boran-Keshishyan, A. L., Ogurtsov, D. V., Krugova, I. M. [et al.] Theory and practice of ship repair. Welding work: Study guide [*Teoriya i praktika sudoremonta. Svarochnye raboty. Ucheb. posobie*]. 2nd ed., rev. Novorossiysk, Admiral Ushakov Maritime State University, 2023, 72 p.

Buylov, V. N., Kosarev, A. V., Chumakova, S. V. Digital technologies in the study of mathematical and mathematical modelling: Textbook [*Tsifrovie tekhnologii v izuchenii matematiki i matematicheskogo modelirovaniya: Uchebnik*]. Saratov, Amir publ., 2023, 120 p. ISBN 978-5-00207-199-9.

Dudareva, O. V. Management of sustainable development of industrial ecosystems in the conditions of technological transformations: Monograph [*Upravlenie ustoichivym razvitiem promyshlennykh ekosistem v usloviyakh tekhnologicheskikh transformatsii: Monografiya*]. Kursk, University Book, 2023, 400 p. ISBN 978-5-907710-99-3.

Gvozdeva, V. A. Intelligent technologies in unmanned systems: Textbook [*Intellektualnye tekhnologii v bespilotnykh sistemakh: Uchebnik*]. 2nd ed., enl. Moscow, INFRA-M publ., 2023, 196 p. ISBN 978-5-16-017804-2.

Khusainov, F. Railway tariffs: a very brief introduction [*Zheleznodorozhnie tarify: ochen kratkoe vvedenie*]. Moscow, Prometheus Publishing House, 2023, 218 p. ISBN 978-5-00172-571-8.

Konovalova, T. V., Lebedev, E. A., Mirotin, L. B. [et al.] Improving traffic safety for children on the road network of cities: Monograph [*Povyshenie bezopasnosti dvizheniya detei na ulichno-dorozhnoi seti gorodov: Monografiya*]. Ed. by T. V. Konovalova. Krasnodar, Publishing House-Yug, 2023, 190 p. ISBN 978-5-91718-730-3.

Kravchenko, O. A. Formation of mechanisms and tools for ensuring sustainable development of electric power organizations: Monograph [*Formirovanie mekhanizmov i instrumentariya dlya obespecheniya ustoichivogo razvitiya elektroenergeticheskikh organizatsii: Monografiya*]. 2nd ed., rev. Moscow, Nauka publ., 2023, 238 p. ISBN 978-5-02-040971-2.

Medvedev, V. T., Kondratyeva, O. E., Karalyunets, A. V. Occupational safety in the energy sector: Textbook [*Okhrana truda v energetike: Uchebnik*]. 2nd ed., ster. Moscow, Academia publ., 2023, 425 p. ISBN 978-5-0054-1095-5.

Using the example of the direction of circulation of the container train St. Petersburg – Novorossiysk, economically feasible organisational and technological requirements for the purpose of container trains were determined. When sending a train with a length determined in accordance with the methodology, the train accumulation period is reduced by 2,8 days, demand increases by 8,26 %, and the economic effect will be 2,4 million rubles/year.

The proposed measures ensure a reduction in the working fleet of fitting platforms by 306 units and containers by 20563 units.

2.9.4 – Transportation processes management.

The work was performed and defended at Samara State Transport University.

Mussonov, G. P. Applied physics in electrical power engineering: Study guide [*Prikladnaya fizika v elektroenergetike: Ucheb. posobie*]. Irkutsk, Publishing house of Irkutsk National Research Technical University, 2023, 158 p. ISBN 978-5-8038-1801-4.

Nosenko, V. I., Naumov, M. V., Sukhina, M. I. Maneuvering and controlling a vessel. Part 1 [*Manevrirovaniye i upravleniye sudnom. Chast I*]. Moscow, Infra-M publ., 2024, 240 p. ISBN: 978-5-16-016918-7, Part 2. – 304 p. ISBN: 978-5-16-016920-0.

Pendrikov, E. S., Eliseev, I. V., Teppoev, A. V. Microprocessor automation and control tools: Study guide [*Mikroprotsessornye sredstva avtomatizatsii i upravleniya: Ucheb. posobie*]. St. Petersburg, LTU publ., 2023, 107 p. ISBN 978-5-9239-1395-8.

Petrov, S. A., Polovinkin, V. N. Accident rates of ships with nuclear power plants of foreign fleets [*Avariynost korablei s yadernymi energeticheskimi ustanovkami inostrannykh flotov*]. St. Petersburg, Krylov State Scientific Center, 2023, 278 p. ISBN 978-5-6046292-9-1.

Platform economy in Russia: development potential [*Platformennaya ekonomika v Rossii: potentsial razvitiya*]: Higher School of Economics, National Research University; editorial board: L. M. Gokhberg [et al.]. Moscow, ISSEK HSE, 2023, 72 p. ISBN 978-5-7598-3001-6.

Ratner, S. V., Nazarova, L. E. Circular model of economic growth. Experience, opportunities and barriers: Monograph [*Tsirkulyarnaya model ekonomicheskogo rosta. Opyt, vozmozhnosti i bariery: Monografiya*]. Moscow, INFRA-M publ., 2023, 211 p. ISBN 978-5-16-017852-3.

Sazhina, M. A., Kashirova, A. V. Social wealth of the innovation system: Monograph [*Sotsialnoe bogatstvo innovatsionnoi sistemy: Monografiya*]. Ed. by D.Sc. (Economics), Honoured Professor of Lomonosov MSU M. A. Sazhina. Moscow, INFRA-M publ., 2023, 109 p. ISBN 978-5-16-017787-8.

Sergeeva, M. V. Mutual influence of transport infrastructure and human development: Monograph [*Vzaimovliyaniye transportnoi infrastruktury i chelovecheskogo razvitiya: Monografiya*]. Moscow, INFRA-M publ., 2023, 217 p. ISBN 978-5-16-017822-6.

Titenok, A. V. Ensuring the operational reliability of mechanical systems: Study guide [*Obespecheniye ekspluatatsionnoi nadezhnosti mekhanicheskikh sistem: Ucheb. posobie*]. Moscow, INFRA-M publ., 2023, 300 p. ISBN 978-5-16-016324-6.

Vershkov, A. V., Moskalev, A. K. Management of innovative activities: Study guide [*Upravleniye innovatsionnoi deyatel'nostyu: Ucheb. posobie*]. Moscow, INFRA-M publ.; Krasnoyarsk, SFU publ., 2023, 165 p. ISBN 978-5-16-018087-8.

Winder, Phil. Reinforcement Learning. Industrial Applications of Intelligent Agents. Translated from English by E. Cherskikh. St. Petersburg, BHV-Petersburg, 2023, 400 p. ISBN 978-5-9775-6885-2.

Compiled by N. OLEYNIK ●