

MATERIAL SUPPLIES IN AN ENTERPRISE AND TRANSPORT

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Abstract: The aim of this article is to give a reader the overview of issues of some logistic activities and outline the basic questions of storage and transport of material. In order to explain the functions of the storage and material flow and refer to one of possible systems of warehouse management and ware housing. Last but not least the authors deal with the types of freight transport and they mention the possibilities of its practical use.

Keywords: Storage. Manufacturing enterprise. Transport. Handling equipment

MATHEMATIC MODEL OF A TRUCK

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Abstract: The paper is focused on usage of simulating technologies in vehicle evaluating. Simulating technologies are widely spread all over the world and military vehicle have to operate under various and operational conditions. These vehicles have to meet the requirements of lethality, mobility, protection, communication and fire power. Utilization of vehicles with similar mobility capabilities is very important condition for multinational units. Simulating technologies can be suitable for vehicle evaluating. In the paper is presented development of simplified mathematic model of Czech military vehicle T-810.

Keywords: Simulation. Mathematic model. Evaluation. Obstacle negotiation.

DIFFERENTIAL RATIONING OF LINEAR FUEL CONSUMPTION OF BUSES AND TRUCKS UNDER DIFFERENT TRAFFIC CONDITIONS

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Abstract: In this paper there is proposed method of differential rationing of linear fuel consumption for trucks and buses that depends on prevailing traffic conditions. For trucks – upon the terms of quantitative assessment – based on road type and condition, average speed and load, for buses – based on typical driving tests for urban, suburban and long-distance tours.

Keywords: Multifactor experiment planning. Rationing of linear fuel consumption. Trucks. Buses. Traffic conditions.

POSSIBILITIES OF TEMPORARY REPAIRS IN THE ARMY

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Abstract: The article deals with temporary repairs. Applying a different technology, using a reproduction part, or performing a repair by a serviceman without the competence is typical features of temporary repairs. Temporary repair makes possible for an object to fulfil its function for a limited time, until regular repairs can be made. The complexity perplex modern vehicles their reparability. It is necessary to look for the new procedures of the implementation so-called temporary repairs. There is an analysis of temporary repairs in selected countries in NATO. The authors suggested procedure battle damage assessment and repair, which they expressed in the form of diagrams. The kit for battle damage for vehicles IVECO is described in the final part of the article.

Keywords: Battle damage assessment and repair. Battle damage repair. Kit for battle damage repair. Temporary repair.

MODELLING LIFE CYCLE COST IVECO VEHICLES AND TATRA 810

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Abstract: In general it can be said that there is currently no fully to track the life cycle cost. NATO members use two approaches – the life cycle of materials and the cost structure of projects. The paper will address the LCC with a focus on direct and indirect costs for selected military equipment of the Army of the Czech Republic.

Keywords: LCC. Modeling. OmegaPS Analyzer.

DEVELOPMENT OF NUCLEAR EDUCATION STANDARDS

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Abstract: If we analyze the causes of severe accidents in the world nuclear industry, we find in most cases common root causes: project deficiency, human error. The fundamental remedy of these root causes is only possible through improvement of nuclear education. Development of the nuclear education standards for the nuclear industry staff and the certification system for teaching staff are proposed. Recommendations with mandatory for the nuclear industry staff disciplines, appropriate knowledge and skills were developed. Propositions for the principles and structure of the certification system for teaching staff are formulated. The risk of emergency situations and accidents in nuclear industry will be significantly reduced.

Keywords: Nuclear Education. Education Standard. Training, Certification.

DEVELOPMENT OF THE POTENTIAL OF THE POLISH ARMY IN THE SECOND DECADE OF THE 21st CENTURY

Pawel TURCZYNSKI

Abstract: The subject of this paper is analysis of a few armament initiatives for Polish Army that are significant for national security and engaging the Polish economy on a large scale. Poland is a country that is large and significant enough to be expected to not only protect its own territory but also to actively participate in international missions. Polish Army will become a very important creator of security at a supra-regional scale.

Keywords: Security. Military forces. Modernisation. International missions. Professionalization.