

STEFANOV V. A. INFLUENCE CONCENTRATION OF ADDITIVE ON THE HYDRAULIC DRIVE MACHINES RESOURCE RAIL TRANSPORT IN THE PROCESSING OF WORKING LIQUID ELECTROSTATIC FIELD.....2

The analysis of known ways to improve resource hydrodrives rail. Determined that the electrostatic treatment of the working fluid is the most promising way. In this paper defined resource growth depending on the concentration of stearic acid and treatment of the working fluid electrostatic field. Found rational concentration of the additive in which resource hydrodrive rail transport is the largest. The maximum capacity of the hydraulic drive rail transport is observed at a concentration equal to 0.35% additive.

Keywords: Electric treatment, concentration, working fluid, trains.

NEMIROVSKIY I. A. EVAPORATIVE COOLING SYSTEM A WAY TO ENERGY EFFICIENCY.12

The paper is dedicated to the 65th anniversary of the introduction of the world's first evaporative cooling plant. It lays down the theoretical basis of evaporative cooling and shows advantages of this system in terms of energy efficiency and environmental friendliness.

Key words: evaporative cooling, metallurgical furnaces, energy resources saving, energy saving.

ZORIN V. V., BUYNIY R. A., PEREPECHENIY V. A. SELECTION AND CALCULATION OF POWER SUPPLY SYSTEM OF THE CITY MULTISTORY BUILDINGS.....16

The article is dedicated to research into some aspects improvement of efficiency of distributive networks in city. This article deals with implementation of the method of economic intervals, which facilitates the solution of problems of resource and energy conservation.

Power engineering

SENKO V. I., MIHAYLENKO, V. V., STUDY ELEKTROMAGNITNYH PROCESSES IN SEMICONDUCTOR CONVERTER OF THE VOLTAGE IN CONSTANT WITH FOURZONNYM REGULATION OF THE OUTPUT VOLTAGE.....24

The article analyzes the electromagnetic processes in electric circuits with semiconductor switches. A mathematical model is created for the analysis of electromagnetic processes in semiconductor converters with PWM control of the output voltage. The graphs are provided, which show the electromagnetic processes in electrical circuits. This paper analyzes the use of the frequency converter structure as a high-frequency link that relates to the construction and analysis of converters for electromechanical units PWM control of DC voltage and four zoned control. When compiling the mathematical model of the converter with computer-orientation of its use we use the method of multiparametric modulating functions, which involves a preliminary representation of the converter's algorithmic equation. The research results confirm the efficiency of the converter's mathematical model representation by aggregate functions of multiparametric type with respect to load voltage, load current and current consumed from the input network.

Key words: electromagnetic processes, output voltage and current.

Economy, organization and management

VNUKOVA N. N., PLESHIVTSEVA T. A. GETTING COMPANIES SPECIAL CREDIT FACILITIES BY MEANS OF FACTORING.....31

The paper considers the specifics of development of factoring credit facilities, presents obtained theoretical and practical results regarding the influence of receivables on the financial stability of companies and substantiates expediency of using factoring by companies, and hence the need for development of this type of bank crediting.

Key words: factoring, factoring financing, accounts receivables, factor, factoring risk.

SYD'KO D. S. MANAGEMENT OF BANK'S CREDIT RISK.....39

The paper defines the bank's credit risk and based on this definition makes analyses and evaluation of factors that influence the volume of the bank's loan portfolio. The analysis made using bank officers' expert opinions highlighted that the bank's credit risk reserves are the key influence factor. It features a model of the bank's loan portfolio, finds a substantially close connection between the volume of the bank's loan

portfolio and credit risk reserves. It highlights crediting issues and possible ways of their solution in the process of risk assessment.

Key words: credit operations, credit risk, liquidity, solvency, bank's loan portfolio, risk management.

Scientific and technical progress and efficiency of production

IVANOV A. N., KROT A. Y. , KROT O. P. **REDUCTION OF POWER CONSUMPTION OF TUBE MILLS USING PRE-GRINDING.....48**

The paper justifies the expediency of preliminary grinding of clinker before it is fed to the tube mills and determines maximum practical size particles of material before it is fed to tube mills. It analyzes of existing designs of pre-grinders and gives recommendations as to the choice of a practical design.

Key words: pre-grinding, clinker, tube mill, drum-and-roll mill, particle strength, power consumption.

TORCHUK M. V. **VALIDATION OF REQUIREMENTS TO CONSTRUCTION OF PULSE GENERATOR FOR CORRECTION OF IMMUNODEFICIENCY IN NEWBORN ANIMALS55**

The paper considers principles of construction of the pulse generator and gives functional, structural and electrical schematic diagrams of elements and components of the generator.

Key words: animal immune deficiency; synchronization pulse device; pulse amplitude stabilization device; magnetic energy storage; current switch.

CHORNAYA M. O. **ANALYSIS OF ENERGY CHARACTERISTICS OF RESONATOR SYSTEM FOR MEASUREMENT OF CHEMILUMINESCENCE OF SUNFLOWER SEEDS.....62**

The paper makes an analysis of a resonator system for measuring superweak luminescence of sunflower seeds.

Key words: sunflower seeds; EMF frequency; resonator systems; chemiluminescence of seeds.

ВЕТРОЭНЕРГЕТИКА - ПУТЬ К ЭНЕРГОНЕЗАВИСИМОСТИ

13 июня в помещении пресс-центра интернет-издания "Обозреватель" состоялась пресс-конференция на тему: "ВЕТРОЭНЕРГЕТИКА - ПУТЬ К ЭНЕРГОНЕЗАВИСИМОСТИ", посвященная Всемирному Дню ветра.

В пресс-конференции приняли участие:

- глава правления Украинской ветроэнергетической ассоциации Андрей Конеченков;
- первый заместитель генерального директора Управляющей Компании "Ветряные парки Украины" Андрей Сергиенко;
- генеральный директор ООО "Виндкрафт Украина" Карл Стурен.

За последние три года украинский сектор ветроэнергетики сделал огромный скачок в своем развитии, закрепив за собой лидерство среди стран СНГ и Прибалтики по установленной мощности ВЭС, и запустив лицензионное производство современных турбин мегаваттного класса. Сегодня можно с уверенностью сказать, что Украина выбрала европейский путь развития.

Несмотря на сопротивление со стороны ряда профильных министерств, ветроэнергетика Украины продолжает наращивать свои мощности даже в нынешний сложный для Украины период. К середине 2014 года установленная мощность сектора достигла 500 МВт.

Как дальше будет развиваться ветроэнергетика в Украине? Насколько этот сектор экономически оправдан? Что будет с проектами, реализация которых сегодня остановлена на оккупированной территории Крыма?

Эти и другие вопросы, связанные с дальнейшим развитием ветроэнергетического сектора Украины, были обсуждены на пресс-конференции.

<http://conf.obozrevatel.com/conference/87924-andrej-konechenkov-vladislav-eremenko-karl-sturen.htm>

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