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SYNTHESIS THE INFORMATIONAL SUPPORTED SYSTEM AT TECHNICAL OPERATION "ON CONDITION" OF CONTROLLED OBJECTS

A. Aslanyan , A. Belskaya

National Aviation University, UKRAINE

Structure of the integral informational computing system for processing of parameters, which are characterized the technical condition of control object, is offered, that allows to close control loop of technical condition controlled object by negative feedback, what enable to pass from technical operation of object "on resource " to its technical operation "on condition ".

LA SEPARATION TRIBO-ELECTROSTATIQUE DES DECHETS ELECTRIQUES *(TRIBO-ELECTROSTATIC SEPARATION OF ELECTRICAL WASTE)*

Mirela G. Radu[1], Lucian Dascalescu[2], Sorin Cănănău[1], Alexandru Rădulescu[1]

[1] Dep. Eléments de Machines et Tribologie, Université "Politehnica" de Bucarest, ROMANIA
[2]IEEE fellow, Institut Universitaire de Technologie,FRANCE

Electrostatic applications are often used today in many areas. Tribo-electrostatic separation is used for sorting of granular mixtures through the application of electrical forces acting on charge or polarization. Thus, these techniques are mainly used for separating dry particles. In this research was also utlise the Taguchi method. Using an experimental stand, a series of experiments on a mixture of polyamide and polycarbonate PC and PA has been realized.

ETUDE EXPERIMENTALE SUR LE COMPORTEMENT RHEOLOGIQUE DES HUILES PROCESS F913 ET CASTROL MAGNATEC DIESEL *(EXPERIMENTAL STUDY ON THE RHEOLOGICAL BEHAVIOR OF PROCESS F913 AND CASTROL MAGNATEC DIESEL OILS)*

Guillaume Grandviennot[*], Alexandru Rădulescu[**]

* Ecole Nationale D'Ingenieurs de Tarbes, FRANCE
** Université "POLITEHNICA" Bucarest, ROUMANIE

The paper proposes to analyze the rheological behavior of lubricants used in automotive engine lubrication. The properties considered are the rheological model of the lubricant in fresh and used state (with a degree of wear) and the variation of viscosity with temperature for various velocity gradients imposed. For these properties, it was determined by the method of regression analysis the laws of variation of the parameters, and also the confidence intervals.

ESSAIS EXPERIMENTALES SUR LE COMPORTEMENT MECANIQUE DE POLYTETRAFLUORETHYLENE (PTFE) *(EXPERIMENTAL TESTS ON THE MECHANICAL BEHAVIOR OF POLYTETRAFLUOROETHYLENE (PTFE))*

Eugenia Costache[1], Mohamed Hajjam[2], Aurelian Fatu[2], Alexandru Rădulescu[1], Sorin Cănănău[1],

[1] Dep. Eléments de Machines et Tribologie, Université "Politehnica" de Bucarest, ROMANIA
[2]Genie Mécanique et Systèmes Complexes, Université de Poitiers, ENSMA, France

The paper proposes the study of mechanical behavior of plastics, especially for polytetrafluoroethylene (PTFE). We presented the general properties of plastics, with emphasis on mechanical behavior of polymeric materials. The experimental tests were conducted on a tensile machine INSTRON 4302, for cases of imposed displacement and applied load. The curves obtained were used for numerical modeling. Finally, we made comparisons between results and conclusions were presented from the behavior of PTFE.

ELECTROCOMPOSITE WITH ZINC ALLOYS MATRIX AND AL_2O_3 NANOPARTICLES

R.Stancu[1], Gh. Badea[2], G. Diacov[2], M. Hriscu[2], D. Ciupitu[3], E. Alexandrescu[3]
[1]Scoala cu clasele I-VIII 162, Bucharest, Romania, rodicastancu71@gmail.com
[2]S.C.ICTCM S.A , Bucharest, Romania, florinba2000@yahoo.com
[2]S.C.ICTCM S.A , Bucharest, Romania, gabi_diacov@yahoo.com
[2]S.C.ICTCM S.A , Bucharest, Romania, mihaelahriscu14@yahoo.com
[3]S.C.METAV Cercetare Dezvoltare, Bucharest, Romania, ciupitu@metav-cd.ro

This paper presents experimental date regarding nanocomposite coatings with Zn-Fe(1-3%) and Zn-Ni(7-15%) metallic matrix and ceramic nanoparticles of aluminium oxide. Deposits were obtained using alkaline electrolytes. The effect of different concentration of particles on corrosion resistance was studied. Structural characterization using scanning microscopy showed that the deposits are nanocrystalline.

MODELE DE ANALIZA A NANOCOMPOZITELOR ELECTRODEPUSE *(MODEL ANALYSIS OF NANOCOMPOSITES ELECTRO-LAID-DOWN)*

Leonard Teodoru[1] , Valentin Mihailescu[2] , Alexandru Ionescu[3], Gratiela Epureanu[4],

[1,2,3,4] Foundation Professor Constantin Popovici "Bucharest, Romania
lteodoru@gmail.com, mmvalentin@gmail.com, alex.fpcp @ gmail.com, popescu_gratiela@yahoo.com

It presents the preliminary analysis of electro deposited nanocomposites parameters model equations for determining mathematical model s for the electronic filing process. It describes a simplified model and boundary conditions for models under consideration, the simplifying assumptions and conditions upon which the deposit.

THE STUDY OF ROUGHNESS AND RESISTANCE TO CORROSION OF DENTAL ALLOYS IN THE ORAL ENVIRONMENT

A.D. Cherciu Ciobotaru, Adina Oana Armencia, Maria Ursache

Faculty of Dental Medicine, „Gr.T.Popa"University of Medicine and Pharmacy, Iaşi, ROMANIA
email: adinaarmencia@yahoo.com, email:maria.ursache@yahoo.com

Through its enzymatic process, the oral environment is setting out catabolism chemical products, having unfavourable effects on the used in restoration. Increase Cu and Sn percent increase a corrosion velocity and surface aspect. This decrease with increase Mo and Co percent through passive effect. Increase Fe concentration increase corrosion velocity. Al is very affected in Cu presented. Increase percent Si increase corrosion velocity to galvanic effect. Corrosion implies the presence of an electrolyte around the metal or alloys subjected to corrosion, damaging of the crystaline network of the material being governed by the electrochemical laws of kinetics.

COLABORĂRI ŞI REŢELE PENTRU DEZVOLTARE *(COOPERATION AND DEVELOPMENT NETWORKS)*

Radu Popescu

Academia Română –INCE-CEIS, Bucureşti, ROMÂNIA, e-mail: radupopescuceis@yahoo.com

In the Global Knowledge Economy the traditional difference between production and the use of knowledge it is not any more important and relevant. The challange consists in the assurance that inovative process is a cooperative one, involving producers (the public sector till a higher level) and consumers (the private sector largly expanded). Such kind of cooperation requests the buildind ofclose relationship between the research comunity and business comunity, as social as professional point of view.

STRATEGIA MICILOR ÎNTREPRINDERI ROMÂNEŞTI ŞI INOVAŢIA, CA FACTOR DE SUCCES PE PIAŢA EUROPEANĂ *(ROMANIAN SMALL BUSINESS ENTREPRISES STRATEGY AND INNOVATION, AS SUCCESS FACTOR ON EUROPEAN MARKET)*

Adina Gabriela Dascălu

University of Craiova, Craiova, ROMANIA, e-mail: adina_gabriela_dascalu@yahoo.com

Innovation is a process whose objective is the achievement of a valuable, original and creative outcome. It gives the invention its economic dimension. Innovation-oriented firms are more likely to win over competitors, either by price reduction by following the reduction of costs, or by making better products that bring greater value to customers. For a

leading European company innovation can be very handy having regard to available funds, unlike small businesses, which can be very innovative, but often encounter financing difficulties. However, there are several less expensive types of strategies the former can use, which merged with a correct prioritization can create a strong position on the European market, even for a small firm.

CERCETAREA IN ROMANIA – TRENDURI ACTUALE
(RESEARCH IN ROMANIA - PRESENT TRENDS)

Nicoleta Gudanescu

Universitatea Nicolae Titulescu, Bucuresti, ROMANIA, e-mail: n.gudanescu@gmail.com

The paper work presents the status of Romanian National Innovation System and National and Regional Innovation Strategies. The innovation based entrepreneurship and innovation indicators in Romanian SMEs are high-lighted, also. The paper work provides in the mean time information about National Research and Development System, Innovation and Business Infrastructure, specific indicators of Regional Innovation Strategies, and possible orientation for future policy actions.

ICT STRATEGY SUPPORT FOR BUSINESS DEVELOPMENT AND INNOVATION

Nicoleta Gudănescu*, Adrian Nicolau,**

Nicolae Titulescu University, Bucharest, ROMANIA,
** SC AVANGARDE TECHNOLOGIES CONSULTING, Bucharest, ROMANIA,
E-mail:n.gudanescu@gmail.com,
adrian.nicolau@consultant.com

This paper work emphasizes the importance of the strategic management for the present companies, no matter the dimension or the field. More important becomes thou, the implementation and utilization of systems that represents support for business processes and information flows because of focus on co-operation and networking activities of today's companies. The models created for running businesses are creative but in some cases these are not paying attention to the ICT point of view. There is evidently a large gap between business and technology development and knowledge about those activities. The paper presents the challenges of business and ICT development thorough the strategies, as global strategies of the companies or as units strategies but always have to be handled as integrated and related activities.

THE CORRELATION BETWEEN THE STUDIES IN THE FIELD OF INFORMATION TECHNOLOGY AT THE LEVEL OF THE ERP PROGRAMS AND THE PROGRESS OF THE INDUSTRIAL TEHNOLOGICAL MANAGEMENT

Andronie Maria, Băluță Aurelian Virgil

Spiru Haret University, Bucharest, ROMANIA,
e-mail: andronie_maria@hotmail.com

One of the improvement trends of the industrial process management consists in using on an increasingly large scale the tools provided by computer science. Basically there is a continuous improvement of the information tehnologies and they permanently adapt to specific processes. Certain evolutions have the tendency to become precious conceptual generalizations or to engender an infrastructure specific to a new era, that of knowledge. In this article we stress the utility of the information technology studies in general and concerning the ERP programs in particular for the technological management processes of the industrial processes.