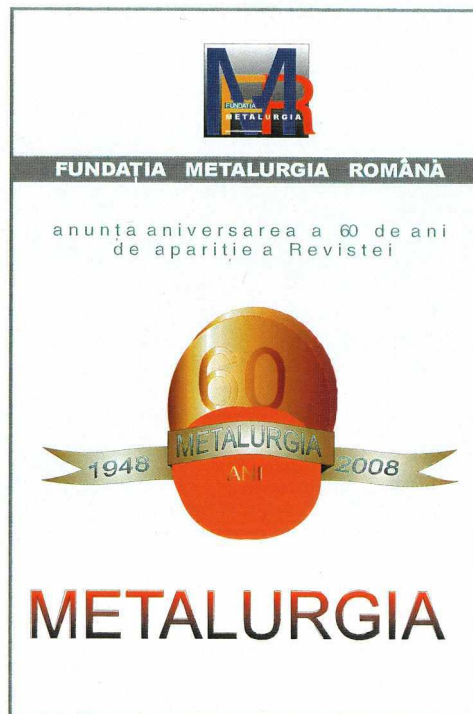


SUMAR Metalurgia nr. 8 2008

ISSN 0461-9579

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ABSTRACT Metalurgia nr. 8 2008

SUSTAINABLE DEVELOPMENT 5-10

D.C. 669.017.16

Keywords: elasticity and resistivity of cuaternar echologic alloys
VASILESCU DAN DRAGOS, VELICU STEFAN, DOBREA VIOREL: **Mechano-elastic and electric characteristics analyse of cuaternar echologic alloys**

The values of mechano-electric characteristics of cuaternar ecologic special alloys of CuNiSiMn and CuNi4AlSi type are situated at lowest limit of classic beryllium bronzes. The values of mechano-elastic characteristics of substitution alloys could be improved by subsequent mechanical hardening without influencing. Determination of elasticity module depending on temperature of cuaternar echologic special alloys, was performed using the nonconventional method of mechanical oscillations resonance. The paper analyses the elasticity module and electric conductivity of cuaternar echologic alloys

Metalurgia (60) 2008, nr. 8, p. 5

MATERIALS SCIENCE RESEARCH AND DEVELOPMENT 11-57

D.C. 669.017.16

Keywords:

MAUTHNER ANDREI IOAN, NICOLAE AVRAM: **Presetting of parameters for steel strips rolling**

The modules and models establishing the designing of parameters are characterised, in order to establish the automation of strip rolling: basic point initialisation power distribution optimisation, rerolling scheme optimisation. Presetting represents a major activity to ensure quality by process and facilities optimisation.

Metalurgia (60) 2008, nr. 8, p.11

D.C. 669.017.16

Keywords: elasticity and resistivity of cuaternar ecjologic alloys
VEȚELEANU ANA, BOT DUMITRU, COZMA RODICA, APOSTOLESCU IOANA: **Determination of tribologic characteristics of hybride composites**

Hybride composites with aluminium alloy matrix (AlSi7Mg), reinforced with hard ceramic particles (SiC) and lubricant particles (graphite-cooper), have large utilisation in production of components for transport industry, due to high tribologic characteristics.

Metalurgia (60) 2008, nr. 8, p.18

D.C. 669.017.16

Keywords: Zn-Al alloys, eutectoid reaction, dilatometric analysis, activation energy

VARGA BELA: **Studies and research on transformation eutectoida in zn - al system**

The paper presents the results relating to the eutectoid reaction in the Zn-Al system.. The activation energy from heating and cooling were determined based on the results of dilatometric analysis.

Metalurgia (60) 2008, nr. 8, p. 22

D.C. 669.018.25

Keywords: composite coating, Cd matrix, ceramic fibers, microstructures
COCINDĂU SANDA CIREȘICA, MITOȘERIU OLGA, POTECAȘU FLORENTINA, ORAC LUCICA: **Composite coatings performed by electro-deposition of cd and short ceramic fibers**

While developments in metals have had an impact on engine design, there is a growing trend toward the application of composite materials to lightweight structures. One of the reasons for this is that alloys do not offer substantial weight savings, which is a primary advantage of composites. In the case of the composite materials obtained through the electrodeposition method, others are: to accomplish an adequate structurals and characteristics, facility to obtain a regular and adherent surface, low costs, possibility to automate and adjust the technology process, excluding other following mechanical processes. Thus covering composite have better characteristics such as: hardness degree, anti-friction behaviour, anticorrosive and wear resistance.

It was shown that the electrodeposition composite was obtained from the sulfate solution and ceramic fibers (from binary system Al₂O₃-SiO₂), at environment temperature. The role of including short ceramic fibers in cadmiu matrix is to improve the covering stability at the industrial corrosion.

Metalurgia (60) 2008, nr. 8, p. 27

D.C.

Keywords: solidification, simulation, software, casting
CIOBANU IOAN, CRIȘA AUREL, MUNTEANU SORIN IOAN: **Aspects concerning the efficient use of software for castings solidification simulation**
There are analyzed the possibilities offered by software for casting solidification simulation in conducting applicative and fundamental research about casting solidification. The advantages and the inconveniency in using these software are presented too.

Considering these aspects, the users, which can most efficiently exploit these software, in the present conditions of Romanian casting industry, are determined.

Metalurgia (60) 2008, nr. 8, p.37

D.C.

Keywords:

POP MIHAI ALIN, CONSTANTINESCU ALEXANDRU: **Utilisation of composite materials for shell type patterns in foundry**

New technologies and materials performance represent always a requirement, determined by dynamic evolution of material goods production.

Composite materials represent have wide-spread utilisation in different activity field. Composite materials are mixtures of two and more components, whose proprieties are reciprocally completed, resulting materials with higher proprieties, as compared to the initially ones.

Composite materials could be utilised for manufacturing of shell-type patterns, required for foundry.

Metalurgia (60) 2008, nr. 8, p. 43

D.C. 621.791

Keywords: cavitation, erosion, heat affected zone(HAZ), vibrating device, welding deposition, erosion velocity

PĂDUREAN IOAN, TRUȘCULESCU MARIN, ARPAD FAY, NEDELCU DORIAN, PĂDUREAN ELVIRA: **Research upon cavitation resistance of the gx4crni13-4 martensitic stainless from the blade areas of the hydraulic turbines repaired by welding**

The paper present the experimental results obtained by cavitation behaviour of the GX4CrNi13-4 martensitic stainless steel, which is currently used to manufacture the Kaplan runner blades. For the thermal influence areas, resulted from welding process meant to dispose of the cavity craters, were made erosion cavitation experimental research.

Metalurgia (60) 2008, nr. 8, p.48

ECONOMIC AND FINANCIAL MANAGEMENT. ACCOUNTANCY IN METALLURGY 43-51

D.C.

Keywords:

LEFTER VIOREL, HÎNCU DANIELA, ROMAN COSTANTIN: **Environment taxes**

Creation in fiscal European and Romanian policies of environment taxes, represents a control method to development of „clean economy”. It represents also a starting point for a fiscal reform ever world-wide. The paper analyses this problem, which represents an imminent fiscal reform of third millenium.

Metalurgia (60) 2008, nr. 8, p.58

D.C.

Keywords: Financial statements, balance sheet, income statements, cash flow statement, IAS/IFRS

LEPĂDATU V. GHEORGHE, CIOMOS VASILE: **The cash-flow statements (ias 7) in operational, investment and financing operations of industrial corporations**

The provision of transparent and useful information on market participants and their transaction is essential for an orderly and efficient market, and it is one of the most important preconditions for imposing market discipline. Left to themselves, markets may not generate sufficient levels of disclosure. Market forces would normally balance the marginal benefits and marginal costs of additional information disclosure and the end result may not be what the market participants really need.

Metalurgia (60) 2008, nr. 8, p. 65

D.C.

Keywords: marketing techniques, banking products and services techniques, competition-yields, stability-yields.

NICULA ILEANA: **Banking adaptation and innovation – answer to globalization**

The papers are focused on adaptation and innovation in the banking financial sector as an answer to the globalisation phenomenon. The banking-financial activity is acting as a specific manner by adapting and innovating processes to the manifested trends. The concrete way to respond to these challenges could be considered contradictory: diversification/specialisation, reglementation/dereglementation, resulting a continuous remodeling process. Currently the competition, the ammunitions are the same in the post-maturity financial markets as in the under-banking countries (such Romania).

Metalurgia (60) 2008, nr. 8, p. 70

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