

# SUMAR Metalurgia nr. 4 2008

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## IPROLAM – ANIVERSAREA

### A 50 DE ANI

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# ABSTRACT Metalurgia nr. 4 2008

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ECONOMIC AND FINANCIAL MANAGEMENT. ACCOUNTANCY IN METALLURGY ..... 42-64

**D.C.: 537.311.3**

**Agop Marcel, Vizureanu Petrică: The “intelligence” of the coherent matter. The critical high temperature superconductivity**

Metalurgia (60) 2008, nr. 4, p. 5

*Using the fractal „space-time” theories, and particularly the scale relativity theory, it is shown that the coherent matter has „intelligence”, and memory, can stock information and has two-state „Physical systems”, equivalent to „fractal bit”, having a neural cell behaviour. In this respect, a theory regarding the critical high temperature superconductivity is developed.*

**D.C.: 669.35; 621.785**

**IVĂNUȘ RADU CRISTIAN: Mathematical modelling of copper cementation process from acide solution in view to obtain the quality powders**

Metalurgia (60) 2008, nr. 4, p. 22

*This paper presents the optimization of conditions under which a copper powder can be obtained, a powder having characteristics imposed by its application (copper-based friction materials), using worn-out catalysts by resorting to the method of programmed experiments.*

**D.C.: 669.16.18**

**CIOBANU IOAN, CRIȘAN AUREL: Ph. D. thesis in the field of steels smelting and casting**

Metalurgia (60) 2008, nr. 4, p. 32

*The paper realizes a short synthesis of the Ph.D. Thesis public presented in the last time in Romanian Universities. Thesis named in this article are in the field of steel smelting and casting. There are shown – the advisory committee for public presentation; - the objectives followed by authors during the researches afferent to thesis – chapters structure. The paper contains too a short presentation of the content of own theoretical and experimental researches carried on by authors.*

**D.C.: 621.762**

**Key words:** metallic powder, mechanical characteristics, plasticity, optimization, pressing-sintering.

**LAZĂR VASILE, NISTOR LIVIU, MONICA SAS-BOCA: Mechanical characteristics and plasticity evolution, support in optimisation of metallic powders compaction-sintering practice**

Metalurgia (60) 2008, nr. 4, p. 37

*The purpose of this study is to develop an optimal process of compaction - sintering for metallic powder components. The mechanical and plasticity characteristics are analyzed from samples obtained from metallic powder using different compaction pressures (500-700 MPa) and concentrations of carbon (0.18% - 0.58%).*

*The mechanical characteristics improve dramatically with increasing compaction pressure and carbon concentration, especially in the value interval of 500-600 MPa. The maximum plasticity can be seen at low pressures of compaction strain of 45.2%, 500 MPa compaction pressure and 0.18% carbon concentration using pressure loading of 100 KN) in cold forming.*

*The influence of hardening is more significant at high compaction pressures.*

**Key words:** the accountancy of current assets

**LEPĂDATU V. GHEORGHE: The accountancy of current assets**

Metalurgia (60) 2008, nr. 4, p. 42

*After defining the current assets, the accountancy methods are emphasized, taking into account the specific particularities: stocks, short-term investments, bank and cash availabilities, debts. Important attention is paid to debt, whose importance is emphasized by the requirement of normal manufacturing processes.*

**Key words:** environment protection, ecological marketing, green marketing, ecological product, back distribution, communication

**VIOLETA RĂDULESCU: Implications of ecologic marketing of companies work**

Metalurgia (60) 2008, nr. 4, p. 53

*The issues of environment protection is today one of most discussed subject in the all governmental and non governmental organizations. The economical growth had the consequences the pollution rise and the limitation of the resources.*

*All the implied factors make efforts to reduce the effects of these changes on environment. The “ecological marketing” or “green marketing “ attempt to make sensitive a lot of people to the environment problems. More and more companies make ecological products, focus their efforts to develop the ecological distribution channels and promote an positive attitude for the environment and the long-term quality of life.*

**Key words:** markets deregulation/de-structuring, over-banking and under-banking markets, pos-maturity financial markets, demand and long maturity deposits, average deposits, private pension funds, innovator clients.

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

Metalurgia (60) 2008, nr. 4, p. 56

*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).*

**Key words:** calculations procedures, delimitation, variable and fixed expenses, productions volume

**RUS IOAN: Calculus proceedings used as part of Direct-Costing-method-simplified variant**

Metalurgia (60) 2008, nr. 4, p. 59

*The article makes a briefly presentation of direct-costing method which has the starting point the indirect expenses parting in variable and fixed expenses. For this delimitation there are used: the smallest squares method, the extreme points method and analytic method. Further on there are presented practical examples of application of these methods in order to be more accessible and easier to understand them. For this there were followed successive stages necessary for each proceeding partly.*

