

SUMAR Metalurgia nr. 6 2008

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ABSTRACT Metalurgia nr. 6 2008

MATERIALS SCIENCE RESEARCH AND DEVELOPMENT 5-39

Key words: value analyse, value optimal value
CHICHERNEA FLORIN: Value analysis. Part I
Metalurgia (60) 2008, nr. 6, p. 5

A complete study of the value analyse is presented in the paper, with direct application to an equipment. The phases and the iterative working method of value analyse are presented.

The value analyse combines both engineering and economics, not giving to anyone priority. Both of them are important, as noticed at the end of the paper.

D.C.: 537.311.3
AGOP MARCEL, VIZUREANU PETRICĂ: The "Intelligence" of the coherent matter. The critical high temperature superconductivity (Part II)
Metalurgia (60) 2008, nr. 6, p. 10

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.: 621.72
Key words: powder metallurgy, steel sheets, mechanical properties, thermochemical treatments, carburizing, annealing
POPESCU TRAIAN: Contributions to the mechanical properties of steel sheets obtained by powder metallurgy and thermal and thermomechanical treated
Metalurgia (60) 2008, nr. 6, p. 21

The research results of steel sheets based iron on obtained by powder metallurgy, with max. 3 mm. thickness (Patent No. 119183 O.S.I.M., Bucharest - Romanian Patent Office) are presented in this work. The sintering step was followed by thermal and thermochemical treatments for mechanical properties improvements.

The raw material used for steel sheets fabrication by metallic powder lamination was iron powder type Distalloy SC 100.26 (Hoganäs - Sweden) with < 0,01 % C and < 0,21 % H₂.

The experiments consist in carburising by heating at 930 - 950 °C, followed by annealing treatments. By carburising treatment the carbon percentage in sintered steel sheets with max. 3 mm. Thickness was accurately controlled.

D.C.: 669.018.25; 621.762.4
IVĂNUȘ RADU CRISTIAN: Research concerning manufacturing and properties of P/M Cu/SiC composite materials for electronics cooling applications (Part II)
Metalurgia (60) 2008, nr. 6, p. 25

The present study analyzes the operational behaviour of the particle strengthened copper matrix composite material as far as the heat dissipation of the semiconductor devices is concerned. The Cu/5% SiC material can be successfully used in the heatsink industry when discussing matters concerning its choice or even manufacturing. The heatsink obtained using this method proved to be qualitatively superior to that industrially manufactured by one of the most famous cooling producers (Titan), a cooler that can be found in most of the systems offered by computer technology providers in our country.

D.C.: 541.8
CIOBANU IOAN, CRIȘAN AUREL: Ph. D. thesis in the field of iron casting and solidification
Metalurgia (60) 2008, nr. 6, p. 30

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 iron casting and solidification. There are shown the objectives followed by authors during the researches afferent to thesis and chapters structure. The paper contains too a short presentation of the content of own theoretical and experimental researches carried on by authors.

D.C.: 669.14.018.25; 539.374
DANIELA FLORENTINA TĂRĂȚĂ, CEALÎCU DRAGOȘ: Research regarding the selection of tool steels for hot working (Part I)
Metalurgia (60) 2008, nr. 6, p. 34

The paper takes into consideration an operational and competent method for selection of steel grades, considering both the nature and the level of loads during operation, and their quality conditions, from the point of view of physical and chemical, mechanical and technological proprieties.

In the first paper, the structure and organisation principles of the method, examples being done for databases, in order to make selection.

In the second part, the selection program is presented and utilisation examples are given for tool steelgrades required for hotworking. For heavy duty and large sizes dies, the MARAGING steel grades are used.

PROCESS TRANSPORT..... 40-42

D.C.: 656.7
Key words: services quality, air transport, globalization, development, competition
DRĂGUȚ BOGDĂNEL-MARIAN: The development of Romanian air transport services in the globalization context
Metalurgia (60) 2008, nr. 6, p. 40

The Romanian air transport services market it's a market in continuous development, which attracts more and more companies with much tempting offers.

The principals factors which has and still contribute at the development of this sector in Romania are: our country accession in the U.E., quick grow of the national economy and of the incomes, the entering and the development of the low-cost air transport and also the competitors growing, and not last the better quality of offered services.

ECONOMIC AND FINANCIAL MANAGEMENT. ACCOUNTANCY IN METALLURGY 43-51

Key words: cost calculation, standard costs, direct costs, indirect costs
LEPĂDATU V. GHEORGHE: Modern methods of management accountancy and cost calculation Method of standard costs
Metalurgia (60) 2008, nr. 6, p. 43

In 1919, G. Harrisson (U.S.A.) established the bases of this method.

The standard-cost represents a system of comparis for real and commercial costs to the standard of prestablished commercial costs.

An analyse system was created in order to establish the causes of differences appeared between standard and effective sales results.

Key words: operation processes, management process, previsionial stage, operational stage, results evaluation stage
VALENTINA ZAHARIA: The management process – its importance and role for metallurgical companies
Metalurgia (60) 2008, nr. 6, p. 50

The management processes are presented in this paper. The main phases of the management process are presented: previsionial, operational and final.

