

SUMAR Metalurgia nr. 10 2008

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ABSTRACT Metalurgia nr. 10 2008

MATERIALS SCIENCE RESEARCH AND DEVELOPMENT

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M.N. MIHĂILESCU, A. DIMA, I. RUSU
MODELAREA PRIN ANALIZĂ DE ELEMENT FINIT A CURGERII FLUIDELOR PRIN MEDII POROASE DE TIPUL FILTRELOR OBTINUTE PRIN SINTERIZARE
UTILIZATION OF FINITE ELEMENT METHOD FOR FLUID FLOW MODELLING OF PRODUS ENVIROMENTS, LIKE SINTERED FILTERS

Abstract: First of all, the definitions equations for flow through filtering enviroment are defined. Then, the modelling process of filtering elements is described. For modelling process, the finite element method has been utilised, in order to resolve equations systems involved. The data performed by simulation and presented in this work explain the sintered filters characteristics and their successfull modelling

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I. CIOBANU, A. CRIȘAN, S. MUNTEAN
WHO ARE THE OPTIMUM USERS IN ROMANIA OF SIMULATION SOFTWARE OF CAST PART SOLIDIFICATION? CINE SUNT UTILIZATORII OPTIUNII IN ROMANIA PENTRU PROGRAMELE PE CALCULATOR DESTINATE SOLIDIFICĂRII PIESELOR TURNATE ?

Abstract: The paper analyzes the possibilities offered by simulation software products of cast part solidification to fundamental and applicative research in the field of casting solidification. The advantages and inconveniences generated by utilization of such software are presented. Considering these aspects the paper analyzes the extent to that such software is necessary and accessible to Romanian companies and shows that the optimum users are the institutions of higher education.

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D.C: 621.771.25

MARIUS TINTELECAN, LUCIANA RUS
THE MATHEMATICAL VALUATION OF PHYSICAL-MECHANICAL CHARACTERISTICS OF A STEEL WIRE AFTER ITS DRAWING

Abstract: This paper presents the evolution of the number of bends, of twist, of the elongation respective of the stricture for a steel wire, after each pass in the drawing process. It is analyzed this evolution through phenomena of cold hardening and texturizing, achieved in the drawing process. The evaluation process of each four features was possible by applying of analytical relations developed by the author.

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ECONOMIC AND FINANCIAL MANAGEMENT. ACCOUNTANCY IN METALLURGY

Key words: underratings, IAS 36, third party, funds, debt

GHEORGHE V. LEPĂDATU
DEPRECIEREA ACTIVELOR CARE VOR FI ACOPERITE PRIN RECUPERĂRI SAU CONTRIBUȚII DIN PARTEA TERȚILOR (IAS-36 „DEPRECIEREA ACTIVELOR” SI IFRS-5 „ACTIVE IMOBILIZATE DEȚINUTE ÎN VEDEREA VÂNZĂRII ȘI ACTIVITĂȚII ÎNTRERUPE”)

Abstract: The underrating of the corporal actives on long term could arise from natural damages, or other category – like flood or blizzard – and, in this situation it is the possibility to cover the raw loss through third payments (especially commercial

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CORINA DANIELA CUNTAN, IOAN BACIU
TRANSLATION CIRCUIT OF THE CONTINUOUS VOLTAGE LEVEL FOR THE TUNDISH'S STOPPER CONTROL IN CONTINUOUS CASTING

CIRCUIT DE TRADUCERE A NIVELULUI CONTINUU AL TENSIUNII ELECTRICE IN CAZUL CONTROLULUI OPRITORULUI DISTRIBUTORULUI DE LA TURNAREA CONTINUA

Abstract In case when the inputs of a Fuzzy controller vary preponderantly around certain values, not covering the entire interval $0 \div 1$, it's necessary the presence of some translation circuits, in order to keep the information's processing accuracy. In this work is presenting such a circuit, that allows the adjusting of the output voltage from the weight transducer of the steel quantity in the tundish for the stopper rod's control system. In order to cover the entire range of the stopper's opening, it was designed a translation circuit of the voltage from the weight transducer's output in such way to be compatible with the Fuzzy regulator's input parameters that compose the continuous casting process' adjusting loop. A model of this circuit was achieved by means of the MULTISIM simulation program, obtaining by this a linear variation of the output parameters on each adjusting step in part.

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D.C: 620.181

MARIUS ARGHIRESCU
CERCETĂRI PRIVIND ACȚIUNEA CURENȚILOR ELECTRICI DE JOASĂ FRECVENȚĂ ȘI MARE INTENSITATE ASUPRA TRANSFORMĂRII PERLITICE DIN OTELURI
RESEARCHES LOOKING THE ACTION OF THE LOW FREQUENCY AND HIGH INTENSITY ELECTRIC CURRENTS ON THE PEARLITIC TRANSFORMATION IN STEELS

Abstract: By an experimental installation for electric heating of steel wires, with 50Hz and 170A electric current, was studied the action of low frequency electric current on the pearlitic transformation.

The obtained microstructures, showing sinuous pearlitic lamellas and important variations of the interlamellary distances, indicates an perturbative action of l.f. and h.i. electric currents during the formation of the pearlitic lamellas, as the effect of a modified driving force.

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D.C: 621.791

IONICĂ CÎRCIU
CONCERNING ABOUT THE IMPACT OF MATERIALS OBTAINED BY NON-CONVENTIONAL ROUTES WITHIN INFANTRY AMMUNITION

Abstract: This subject proposes to treat some theoretical and experimental aspects of explosive welding method and to study the impact of these new materials on infantry ammunition.

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CARMEN TRICĂ, IULIANA DOBRE
SISTEME INFORMATICE - SUPTOR PENTRU DECIZIA DE MEDIU
INFORMATICS SYSTEMS-SUPPORT FOR ENVIRONMENT DECISION

Key words: informatics environmental system, environmental decisions, environmental management, water quality.

Abstract: In an informatics based society, the specialists of environment must to put accent on informatics solutions which allow to accomplish the managerial objectives in optimal conditions. Thus, the environmental informatics system becomes a vital instrument for managers. The informatics environmental system assures for managers the information needed in various forms, starting collection empirical data electronic or on paper to complexe informatics systems. The information quantity and quality provided managers of the environmental informatics systems depend on degree of manipulation and data analyse in system development, on relevance of data compared and on managers ability to user these systems.

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