

*KUL'BATSKIY, A.P.*

KUL'BATSKIY, A.P.; FEDOROV, S.D., retsenzent.

[Work practice of progressive steel workers in the open-hearth shop of the Chelyabinsk Steel Plant] Opyt raboty peredovykh stalevarov martenovskogo tsakha Cheliabinskogo metallurgicheskogo zavoda. Sverdlovsk, Gos. nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1953. 41 p.

(MLRA 7:5)

(Open-hearth process)

KUL'BATSKIY, A.P.

PHASE I BOOK EXPLOITATION

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Kolosov, Mikhail Ivanovich, and Kul'batskiy, Aleksey Pavlovich.

Razlivka stali (Steel Pouring) Moscow, Metallurgizdat, 1957. 211 p.  
4,800 copies printed.

Ed.: Smolyarenko, D. A.; Ed. of Publishing House: Zinger, S. L.

PURPOSE: This book is written to make known the work methods of leading Soviet steel plants, especially those producing high-grade steel. The book is intended primarily for engineers and technicians at steel plants, but can also be used by laboratory personnel at plants and institutes and by students of steel-production methods.

COVERAGE: The authors discuss the following topics: demands made upon refractory materials and conditions to which they are exposed; preparing equipment for pouring steel; pouring methods; crystallization of killed and rimmed steel; ingot defects and means of dealing with them. Chapters I, II, III, and VII were written by Kul'batskiy, A.P.; Chapters IV, V, VI, and VIII, by Kolosov, M. I. The authors express

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## Steel Pouring (Cont.)

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their thanks for help in compiling the volume to Vaynshteyn, O.Ya.; Ayzenshtok, I.Ya.; Keys, N.V.; Ipatov, N.K.; Stroganov, A.I.; Morozov, A.N., Professor, Doctor of Technical Sciences; Lubenets, I.A., Chief Engineer, Chelyabinsk Metallurgical Plant; Smolyarenko, D. A., Scientific Editor; and the steel melters of the Chelyabinsk Metallurgical Plant. There are 88 references, of which 83 are Soviet, 4 English, and 1 German.

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PHASE I BOOK EXPLOITATION

SOV/1805

Kul'batskiy, Aleksey Pavlovich

Skorostnyye remonty elektrostaleplavil'nykh pechey (Rapid Repair of Electric Steel-melting Furnaces) Sverdlovsk, Metallurgizdat, 1958. 76 p. Errata slip inserted, 2,500 copies printed.

Ed.: A. B. Dokshitskiy; Ed. of Publishing House: Yu. V. Luchko;  
Tech. Ed.: Ye. M. Zef.

**PURPOSE:** This booklet is intended for technicians engaged in the operation and maintenance of electric furnaces. It may also be of value to skilled foundry men in electric furnace shops, and to students of metallurgical vuzes.

**COVERAGE:** The book contains general information about the design, construction and operation of electric furnaces, and some specific instructions for conducting overhaul operations in the most efficient and progressive manner. These methods were devised and

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Rapid Repair of Electric Steel-melting Furnaces

SOV/1805

tested at the Chel'yabinsk metallurgical plant, but experience gained in other plants was also drawn upon to present a comprehensive plan and organizational setup for repairing the lining and brickwork in electric furnaces. Instructions are given for the maintenance of the lining, and some methods are suggested for prolonging the service life of linings. The elements of safety regulations are also presented. The book contains a number of illustrations and diagrams. The author thanks Engineers K. A. Mikhaylov, O. A. Labunovich, and A. B. Dokshitskiy. There are 8 Soviet references.

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ACCESSION NR: AP4012529

S/0056/64/046/001/0106/0109

AUTHOR: Kul'beda, V. Ye.

TITLE: Temperature dependence of the Overhauser effect in dilute manganese solutions in weak magnetic fields

SOURCE: Zhurnal eksper. i teoret. fiz., v. 46, no. 1, 1964, 106-109

TOPIC TAGS: Overhauser effect, Overhauser effect temperature dependence, manganese chloride, manganese chloride solution, dilute manganese chloride solution, dipole dipole interaction, exchange interaction, steady magnetic field cancellation, magnetic field cancellation temperature, proton magnetic relaxation, paramagnetic ion

ABSTRACT: To check on the relative contributions made by dipole-dipole interaction and by exchange interaction to the relaxation of the proton magnetic moments, with an aim at devising a new method for measuring the constants involved in relaxation theory, the tem-

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perature dependence of the Overhauser effect was measured in aqueous solutions of  $MnCl_2$  (0.001--0.015 M concentration). The tests have shown that dipole-dipole relaxation predominates up to about 60°C in a steady field of about 70 Oe, above which the exchange interaction prevails. At  $60 \pm 0.3C$  the two mechanisms cancel each other and the Overhauser effect disappears. The dependence of the cancellation temperature on the magnetic field intensity is calculated. "In conclusion, the author thanks S. M. Rubchinskiy and M. P. Zel'dovich for helpful advice and discussions of the results. Orig. art. has: 3 figures and 7 formulas.

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Graphs 9 Tables 2

Reduction of blood serum by cysteine in an acid medium results in the appearance of a new electrophoretic component with a mobility intermediate between that of albumin and  $\gamma$ -globulin, along with an appreciable drop of the albumin and  $\gamma$ -globulin peaks. The appearance of the new component is also elicited by cysteine treatment of a mixture of isolated albumin and  $\gamma$ -globulin but not by the reduction of

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$\gamma$ -globulin alone. Partial breakdown of the new component is accompanied by an appreciable rise of the peaks of albumin and  $\gamma$ -globulin. The new component might therefore be regarded as an albumin-globulin complex. Iodoacetate experiments showed that the formation of the above complex is accomplished at the expense of SH-groups released upon reduction of proteins.

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(III). Zhur. neorg. khim. 10 no.7:1624-1631 J1 '65.  
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AUTHOR: Bartova, L. M.; Kul'berg, A. Ya.; Volgin, Yu. B.; Tarakhanova, I. A.

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ORG: Institute of Epidemiology and Microbiology im. N. F. Gamaleya, AMN SSSR, Moscow (Institut epidemiologii i mikrobiologii AMN SSSR)

TITLE: Antitoxic properties of low-molecular antibodies isolated from the urine of immune rabbits

SOURCE: Voprosy meditsinskoy khimii, v. 11, no. 3, 1965, 12-17

TOPIC TAGS: rabbit, antibody, antigen, gamma globulin, blood serum

ABSTRACT: The authors present findings indicating that low-molecular antibodies appear in the urine when rabbits are immunized with antigens of the most different nature. These antigens can be detected not only by reactions in vitro but also, in the case of low-molecular antibodies to the tetanus toxin, through their specific antitoxic effect and in experiments on animals.

The rabbits used in the experiments were immunized with crude tetanus toxin, egg albumin, human serum albumin, and human gamma-globulin combined with dinitrofluorobenzene by the method described by Eisen et al. (J. Exp. Med., Vol 110, p 187). The antibodies were isolated chiefly by means of complement fixation reactions. The low-molecular antibodies isolated from rabbits immunized with tetanus toxoid specifically neutralize tetanus toxin in experiments on animals. Detection of low-molecular antitoxin in the urine of the rabbits occurred when the concentration of antitoxic antigens in the blood serum reached 30-40 AE/cc. Orig. art. has: 1 figure and 2 tables. [JPRS]

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Characteristics of the immunochemical structure of antitoxic  
 $\beta_{2A}$ -globulin derived from horses. Vop. med. khim. li  
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I. N.F. Gamalei Institute of Epidemiology and Microbiology,  
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 $\gamma$ -globulin with papain. Biokhimiia 30 no.5:1065-1070 3-0 '65.  
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1. Institut epidemiologii i mikrobiologii imeni N.P.Gamalei  
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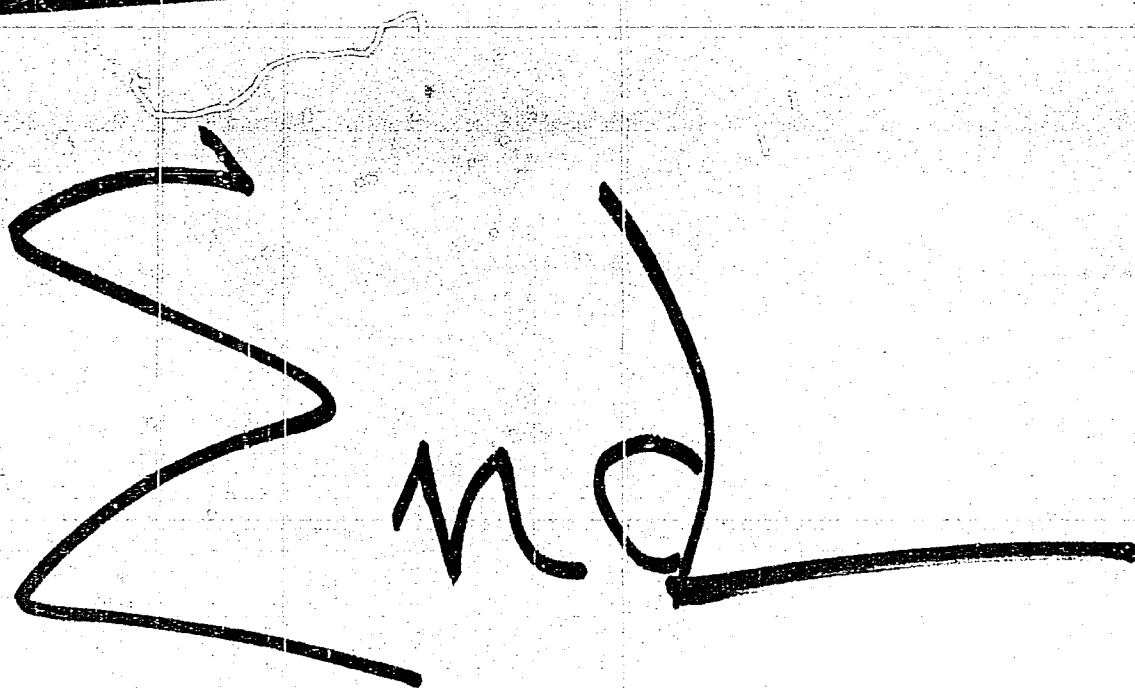


REEL # 273

KUKHAREVAM, M.

to A.

KUL'BERG, A. Ya.



A handwritten signature in black ink on a white grid background. The signature consists of three characters: 'S', 'M', and 'D'. The 'S' is a large, stylized letter with a curved top and a long horizontal base. The 'M' is a smaller, blocky letter with a pointed top. The 'D' is a large, blocky letter with a curved top and a long horizontal base. The signature is written in a cursive style.