S/044/63/000/001/031/053
A060/A000

AUTHOR: Povzner, A.Ya., Gestrin, G.N.

TITLE: On some finite-difference methods of solving mixed problems for hyperbolic and parabolic equations

PERIODICAL: Referativnyy zhurnal, Matematika, no. 1, 1963, 6, abstract 1V14
               (Uch. zap. Khar'kovsk. un-t, 1961, 120, Zap. Mekhan.-matem. fak. i
               Khar'kovsk. matem. o-va, v. 28, 33 - 63)

TEXT: By "imitating" with finite differences the conservation laws or integral identities defining the generalized solution, the authors construct in a natural way finite-difference schemes, which reduce to solutions of the corresponding boundary problems for second-order differential equations of the hyperbolic and parabolic type. Here, having mainly in view the construction of stable difference schemes, the authors everywhere, after proving the stability of the scheme, prove its convergence to the solution of the corresponding boundary problem in the weak sense only (the necessary uniqueness theorems are assumed to be known).

[Abstracter's note: Complete translation]

Card 1/1

40540

S/039/62/058/001/001/001
B112/B186

24.6715

AUTHOR: Povzner, A. Ya. (Moscow)

TITLE: Boltzmann's equation for the kinetic theory of gases

PERIODICAL: Matematicheskiy sbornik, v. 58 (100), no. 1, 1962, 65-86

TEXT: The author considers the generalized Boltzmann equation

$$\frac{\partial f}{\partial t} + \frac{1}{m}(p, \operatorname{grad}_x f) - (\operatorname{grad} U, \operatorname{grad}_p f) = \tag{4}$$

$$= \int [f(\xi, p_1'(x-\xi), t) f(x, p_1'(x-\xi), t) - f(x, p_1) f(\xi, p_1)] J(x-\xi, p_1-p_1) d\xi dp_1 =$$

$$= T[f, f] = T_+[f, f] - T_-[f, f],$$

for the molecular function f. This equation differs from the classical one by its derivation, which is based on the assumption of a possible spatially "smeared-out" collision process. No special requirements as to the specificity of physical assumptions used for the derivation of the equation are imposed. Instead of Eq. (4), the equivalent integral equation
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Boltzmann's equation for the kinetic ...   S/039/52/058/001/001/001
B112, B186

$$f(x,p,t) = f_0(x,p)\Big|_t + \int_0^t T\big[f,f\big]\Big|_{t-\tau}d\tau \qquad (11)$$

is investigated. The existence and uniqueness of its solution is proved.
This result is obtained without introducing the special law of elastic
collision, but 'only under the assumption of conservation laws. For
spatially homogeneous distributions, Eq. (4) is equivalent to the
classical Boltzmann equation. Therefore, the author's results contain
that of T. Carleman (Problèmes mathématiques dans la théorie cinétique
des gaz, Uppsala, 1957) as special cases.

SUBMITTED: February 16, 1961

Card 2/2

POVZNER, A.Ya. (Moskva); SUKHAREVSKIY, I.V. (Khar'kov)

Finding asymptotic solutions of shortwave diffraction problems.
Zhur. vych. mat. i mat. fiz. 1 no.2:224-245 Mr-Ap '61.
(MIRA 14:8)

(Boundary value problems) (Diffraction) (Waves)

POVZNER, A. Ya.; SUKHAREVSKIY, I. V. (Khar'kov)

Discontinuity of the Green function in a mixed problem of the
wave equation. Mat. sbor. 51 no.1:3-26 '60. (MIRA 13:8)
(Differential equations, Partial)

·24(3)

AUTHORS: Povzner, A. Ya., Sukharevskiy, I. V.   SOV/20-127-2-16/70

TITLE: The Integral Equations of the Second Kind for the Problems of
                Diffraction on an Infinitely Thin Screen

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 127, Nr 2, pp 291-294
                (USSR)

ABSTRACT: The present work was undertaken with the object of developing
                the boundary value problem of the diffraction into an equivalent
                regular integral equation of the second kind. In the first part
                of the paper the differential-integral equation of the first
                kind (7) is developed with Green's formulas in the familiar
                manner, and then the principal problem of this paper is treated:
                the transformation of equation (7) into an integral equation of
                the second kind. Equation (8) is obtained from (7) with the use
                of an operator, and equation (9) is then developed from (7) and
                (8). By a corresponding transformation Fredholm's equation (10)
                is derived from equation (9). The general formula is given for
                the special case of the infinitely thin plane screen, and it is
                stated that the integral equation (10) is equivalent to the

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The Integral Equations of the Second Kind for the   SOV/20-127-2-16/70
Problems of Diffraction on an Infinitely Thin Screen

above boundary value problem. In the last part a scalar
investigation of the diffraction is carried out, giving
solutions of Dirichlet and Neumann. There are 4 references,
1 of which is Soviet.

ASSOCIATION: Institut radiofiziki i elektroniki Akademii nauk USSR
(Institute of Radiophysics and Electronics of the Academy of
Sciences, UkrSSR)
Khar'kovskiy politekhnicheskiy institut im. V. I. Lenina
(Khar'kov Polytechnic Institute imeni V. I. Lenin)

PRESENTED: March 28, 1959, by V. I. Smirnov, Academician

SUBMITTED: March 26, 1959

Card 2/2

LYUBARSKIY, G.Ya.; POVZNER, A.Ya.

Theory of wave propagation in irregular wave guides. Zhur.
tekh.fiz. 29 no.2:170-179 F '59.   (MIRA 12:4)

1. Fiziko-tekhnicheskiy institut AN USSR i Institut radiofiziki
i elektroniki AN USSR, Khar'kov.
                    (Wave guides)

AUTHORS: Povzner, A.Ya. and Sukharevskiy,I.V.   SOV/20-122-6-8/49

TITLE: On the Discontinuity of the Green Function of the Mixed
              Problem for the Wave Equation and on Some Diffraction Problems
              (O razryvakh funktsii Grina smeshannoy zadachi dlya volnovogo
              uravneniya i o nekotorykh difraktsionnykh zadachakh)

PERIODICAL: Doklady Akademii nauk, SSSR,1958,Vol 122,Nr 6,pp986-989 (USSR)

ABSTRACT: The solution $u(t,x)$ of the problem

$$\Delta u = u_{tt}$$

$$u(0,x) = 0 \quad , \quad u_t(0,x) = f(x) \quad , \quad u\big|_S = 0 \quad ,$$

where S is the simple infinitely differentiable boundary of
a two-dimensional domain D, can be written in the form

$$u(t,x) = u_0(t,x) + \int_D w(t,x,y)f(y)d\omega_y \quad ,$$

if $u_0(t,x)$ is the solution of Cauchy's problem in the whole
space under the same initial conditions. The authors in-
vestigate the points of discontinuity $t = t_k(x,y)$ of the Green

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On the Discontinuity of the Green Function of the   SOV/20-122-6-8/49
Mixed Problem for the Wave Equation and on Some Diffraction Problems

function w and of its derivatives with respect to t, and the magnitude of the jumps. Simultaneously they direct to the formal connection of the considered problem with the theory of the short-wave diffraction. If namely $v(x,a,k) =$

$$= \frac{1}{2\pi} H_0^{(1)}(k|x-a|) + \gamma(x,a,k) \quad \text{is the Green function of the}$$

Dirichlet problem for the equation $\Delta v + k^2 v = 0$ in D, then it is

$$\gamma(x,a,k) = \int_0^\infty e^{ikt} w(t,x,a)\,dt$$

The partial integration gives the asymptotic behavior of γ in dependence on the jumps of $w(t,x,a)$. The authors present four theorems with partially indicated proofs.

ASSOCIATION: Khar'kovskiy gosudarstvennyy universitet imeni A.M.Gor'kogo (Kharkov State University imeni A.M. Gor'kiy)

PRESENTED: June 5, 1958, by S.L. Sobolev, Academician

Card 2/3

POVENER A. Ya

52-III-1-4/9

AUTHORS: Maslov, K.V.   and   Povzner, A. Ya.

TITLE: On Infinitesimal Operators of a Class of Markov
          Processes.   (Ob infinitezimal'nykh operatorakh
          odnogo klassa markovskikh protsessov.)

PERIODICAL: Teoriya veroyatnostey i yeye primeneniya, 1958,
          Vol.III, Nr.1, pp. 70-83.   (USSR)

ABSTRACT: The basic purpose of this paper is to obtain a general
          form of infinitesimal operators for a class of Markov
          processes in an n-dimensional space.   It is shown that
          if the transition probabilities satisfy certain conditions,
          then an infinitesimal operator of the process is a
          natural generalization of the operator considered for the
          one-dimensional case by Ito (Ref.3).   At the same time
          Ito's requirement of "stochastic differentiation" of
          the process is replaced by other conditions which can be
          verified more simply.   All the results in the paper
          are formulated in terms of transition probabilities, and
          the connection of these results with the investigations
          of Dynkin (Ref.4), in which the property of trajectories is
          taken as a starting point, is not discussed.   Since this
          paper was submitted Martynov (Ref.7) has presented a
Card   series of results which agree with those of this paper but
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On Infinitesimal Operators of a Class of Markov Processes.

approach the n-dimensional case is not significantly more complicated than the one-dimensional case, the main part of the paper is devoted to a discussion of the one-dimensional process. Consider the one-dimensional Markov process with transition probabilities $F(t, x; \tau, y)$. This function is a non-vanishing function of y satisfying the conditions

$$\lim_{y \to +\infty} F(t, x; \tau, y) = 1; \tag{Eq.1}$$

$$\lim_{y \to -\infty} F(t, x; \tau, y) = 0. \tag{Eq.2}$$

It is measurable in x with respect to the measure generated by it as a function of y. The function also satisfies the condition

$$F(t,x; \tau,y) = \int_{-\infty}^{+\infty} F(t',z; \tau,y)d_z F(t,x; t',z) \tag{Eq.3}$$

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$$(0 < t < t' < \tau)$$

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Let C be the space of all continuous and bounded (on all axes) functions with norm $\|f(x)\| = \sup_x |f(x)|$,

and $\tilde{C}$ the set of all finite functions from C. Suppose that for $f(x) \in C$

$$\psi(t,x;\ \tau) = T_t^\tau f = \int_{-\infty}^{+\infty} f(y) d_y F(t,x;\ \tau,y). \quad \text{(Eq.4)}$$

Denote by Ω the set of functions from C for which

$$T_{t'-\delta}^{t'} f = \int_{-\infty}^{+\infty} f(y) d_y F(t'-\delta,x;\ t',y) = f(x) + \delta K_f(t';x) + o(\delta) \quad \text{(Eq.5)}$$

for any fixed t' and x and $\delta > 0$. Processes are considered which satisfy the following conditions: (A) for any $f(x) \in C$ for fixed t' and x, then

Card 3/8 $T_{t'-\delta}^{t'} f$ tends to $f(x)$ as $\delta \to 0$;

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(B) the set Ω contains a sub-set Ω' of continuously twice differentiable (on all axes) functions such that if $f(x) \in \Omega'$ then $f(x-a) \in \Omega'$ for any a; the set Ω' is everywhere dense in $\overline{C}$ and if $f(x) \in \overline{C}$ and has in a finite interval two continuous derivations, then the approximating functions for f from Ω' can be chosen such that in the given interval they uniformly approach the first and second derivations of the function $f(x)$;

(C) as $N \longrightarrow +\infty$

$$\int_{|y-x|>N} d_y \frac{1}{\delta} \, F(t' - \delta, x; t', y) \longrightarrow 0.$$

uniformly with respect to δ.

Theorem 1. Let there be given a one-dimensional Markov process satisfying conditions (A), (B) and (C). Then if the function $\psi(t, x; \tau)$ related to $F(t, x; \tau, y)$ by Eq.4 is continuously differential twice with respect to x, then it satisfies the equation

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On Infinitesimal Operators of a Class of Markov Processes.

$$-\frac{\partial \psi(t,x;\tau)}{\partial t} = \int_{-\infty}^{+\infty} \left\{ \psi(t,y+x;\ \tau)-\psi(t,x;\ \tau)- \frac{y}{1+y^2} \frac{\partial \psi(t,x;\ \tau)}{\partial x} \right\} \times$$

$$\times \frac{1+y^2}{y^2} d_y \sigma(t,x,y)+\gamma(t,x)\frac{\partial \psi(t,x;\ \tau)}{\partial x} \qquad (\text{Eq.}6)$$

and the initial condition

$$\psi(t,\ x;\ \tau) \longrightarrow f(x) \quad \text{as} \quad t \longrightarrow \tau - 0, \qquad (\text{Eq.}7)$$

where $\sigma(t,\ x,\ y)$ has a non-vanishing function of bounded variation (on all axes) for fixed t and x. The author then discusses some consequences of this theorem, in particular, (1) the infinitesimal operator of a homogeneous process with independent increments, which is continuous with respect to t in the sense of satisfying condition (A).   If the operator is denoted by A and the conditions of the theorem are satisfied, then

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$$Af = \int_{-\infty}^{+\infty} \left\{ f(x+y) - f(x) - \frac{y}{1+y^2} f'(x) \right\} \frac{y^2}{1+y^2} d\sigma(y) + \gamma f'(x);$$

(Eq.22)

(2) The conditions that the operator K_f is local. These are that the function $\sigma(t, x, y)$ (as a function of y) must have a finite discontinuity at the origin and be a constant in the intervals $(-\infty, 0)$ and $(0, +\infty)$. For this it is necessary and sufficient that

$$\int_{|y-x| \geqslant \varepsilon} d_y \frac{1}{y \delta} F(t' - \delta, x; t', y) \longrightarrow 0$$

(Eq.23)

for any fixed ε;

(3) The purely discontinuous process. In order that the process be a purely discontinuous Feller process the function $\sigma(t, x, y)$ must satisfy the condition

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$$\int_{-\infty}^{+\infty} \frac{1+y^2}{y^2} \, d_y \sigma(t, x, y) < \infty . \qquad \text{(Eq.24)}$$

To satisfy this condition it is necessary and sufficient that

$$\int_{x-a}^{x+a} d_y \frac{1}{\delta} \, F(t' - \delta, x; t', y) < C \quad (a > 0) \qquad \text{(Eq.25)}$$

for any fixed t' and x and all δ. For simplicity the n-dimensional case is treated for $n = 2$. Let $P(t, p; \tau, \Gamma)$ be the transitional probability of a two-dimensional Markov process; p a point on the plane with coordinates (x_1, x_2), Γ a Borel set on the plane on which is defined the probability measure $P(t, p; \tau, \Gamma)$. The same conditions as for the one-dimensional process are imposed.

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On Infinitesimal Operators of a Class of Markov Processes.

Theorem 2. For a Markov process satisfying the above conditions the function $\psi(t, p, \tau)$, if it has two continuous derivatives, satisfies the equation 6' and the initial condition 7', where R_2 is a two-dimensional space, D_ε is some neighbourhood of the region with diameter ε, q is the point on the coordinates (y_1, y_2), and $\mu(t, p, \Gamma)$ is a measure on the plane such that $\mu(t, p, R_2) < \infty$ for each fixed p and t. Moreover,

$a_{12}^2 - a_{11}a_{22} \leqslant 0$ for any values of p and t.
There are 8 references of which 6 are Soviet and 2 English.

SUBMITTED: July 20, 1957.

AVAILABLE: Library of Congress.

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Card 8/8

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Practice of construction and exploitation of open pits of Krivoy
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System of mining with lateral juds and without cross trenches. Gor. zhur. no.2:9-12 F'62.   (MIRA 17:2)

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        A.S., nauchn. sotr.; MATVIYEVSKIY, A.S., nauchn. sotr.;
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(Ukraine--Fruit--Diseases and pests)

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Myasthenia gravis and pregnancy. Pol. tyg. lek. 20 no.19:
696-699 10 My '65.

1. Z Oddzialu Polozniczo-Ginekologicznego Centralnego Szpitala
Klinicznego Ministerstwa Spraw Wewnetrznych w Warszawie (Odry-
nator Oddzialu: dr. med. Marian Zielinski).

POWOLNY, Michal

> Fetus papyraceus in the course of twin pregnancy. Wiad. lek.
> 18 no. 23:1821-1824 1 D ' 65
>
> 1. Z Oddzialu Polozniczo-Ginelogicznego Centralnego Szpitala
> MSW (Kierownik: dr. med. M. Zielinski).

SURNAME, Given Names

Country: Poland

Academic Degrees: /not given/

Affiliation: /not given/

Source: Warsaw, Medycyna Weterynaryjna, Vol XVII, No 8, August 1961,
pp 467-468.
Data: "Control of Cattle Tuberculosis on the Terrain of Zakopane."

Authors:
GAILHOFER, Jan
NAWROCKI, Jan
PORAWSKI, Wieslaw.

GPO 981643

POWROZNY, Wladyslaw; PRZESMYCKI, Jan

Effect of combined therapy and attempted use of biochemical
tests in the diagnosis of lupus erythematosus. Pol. tyg. lek.
18 no.22:780-783 27 My '63.

1. Z Oddzialu Dermatologicznego Szpitala Miejskiego Nr VI im.
dr R. Leszczynskiego w Katowicach; ordynator: dr W. Powrozny.
            (LUPUS ERYTHEMATOSUS, SYSTEMIC)
            (ENZYME TESTS)   (ADENOSINE TRIPHOSPHATE)
                     (CHLOROQUINE)

POLAND

POWROZNY, Wladyslaw and PRZESMYCKI, Jan, Dermatology Division (Oddzial Dermatologiczny), Municipal Hospital (Szpital Miejski) No IV im. Dr. R. Leszczynskiego in Katowice (Ordynator: Dr. W. POWROZNY)

"Effect of Combined Treatment and Use of Biochemical Tests in the Diagnosis of Erythematodes."

Warsaw, Polski Tygodnik Lekarski, Vol 18, No 22, 27 May 63, pp 780-783.

Abstract: [Authors' English summary] Authors report their observations concerning 20 patients with erythematodes and the results of biochemical and enzymatic tests. The tests are of diagnostic value only in acute and subacute forms of erythematodes. Combined threatment with ATP and Arechine was effective, but did not prevent relapses. There are 21 references, of which 10 are Polish, 5 Western, 3 Czech, two German, and one Soviet.

1/1

8

POWROZNY, Wladyslaw; PRZESMYCKA, Irena; PRZESMYCKI, Jan

Evaluation of paraprotein C in syphilis and certain dermatoses.
Przegl.derm. Warsz. 47 no.6:479-486 N-D '60.

1. Z Oddzialu Dermatologicznego Szpitala Miejskiego Nr VI im.
dr R.Leszczynskiego w Katowicach, Ordynator: dr W. Powrozny.
      (SYPHILIS blood)
      (DERMATOLOGY blood)
      (C-REACTIVE PROTEINS)

POWROZNY, W.

POLAND

BAUER, Jakub; Ward of Obstetrics and Gynecology (Oddzial
Poloznico-Ginekologiczny) Municipal Hospital (Szpital Miej-
ski), Katowice; Chief Physician of the Ward: Dr Med J. BAUER
Director of the Hospital: Dr Med W. POWROZNY.

''The Use of the Vaccum Extractor Instead of Forceps''

Warsaw, Polski Tygodnik Lekarski, Vol XVIII, No 7, 11 Feb
1963, pp 259-262

Abstract: /Author's English summary modified/ The Vacuum
Extractor was used instead of forceps in 42 cases of patho-
logic labor; the total number of deliveries in this period
(1 Oct 1959- 31 Aug 1961) being 2846. The indications and
the advantages of this safe method are discussed. The cases
in which it may be used should be carefully chosen, however.
    All the mothers and newborn babies delivered by this
method were discharged 5 to 10 days after delivery, in good
condition. The results of complex studies (including electro-
encephalic tracings) performed in 200 children aged 1 to 2
by Fulst and Holtorff are mentioned. 2 tables; 10 Western,
2 Eastern references;

POWROZNY, Wladyslaw; PRZESMYCKA, Irena; PRZESMYCKI, Jan

Evaluation of paraprotein C in syphilis and some dermatoses. Przegl.
derm. 49 no.2:137-143 '62.

1. Z Oddzialu Dermatologicznego Szpitala Miejskiego nr VI im. dr
L. Leszczynskiego w Katowicach Ordynator: dr W. Powrozny.

(C REACTIVE PROTEIN)   (SYPHILIS blood)   (SKIN dis)

POWROZNY, Wladyslaw; SROCZYNSKA, Maria

A case of acrodermatitis enteropathica in an infant. Pediat.polska
34 no.11: 1432-1438 '59.

1. Z Kliniki Chorob Dzieci w Zabrzu. Kierownik: prof.dr.med.A.Chwa-
libogowski i z Oddzialu Dermatologicznego Szpitala Miejskiego no.6
w Katowicach. Ordynator: dr.med. W. Powrozny.
             (ACRODERMATITIS in inf.& child.)

POWIERTOWSKI,Hieronim; MALECKI,Jan; BUTTNER,Gabriel

Rhino-neurosurgical method in the treatment of fractures of the base of the anterior cranial fossa.   Otolar polska 14 no.1:55-59 '60.
(SKULL fract. & disloc.)

POWIERTOWSKI, Hieronim; HUBER, Zdzislaw

Tests in patients with brain damages. I. Results of Kohs' test and
EEG studies in patients with epilepsy. Rozpr.wydz.nauk med. 6 no.2:
243-252 '61.

1. Zespol prac z Kliniki Neurchirurgii AM w Poznaniu Kierownik: zast.
prof. dr H. Powiertowski.

(EPILEPSY diag)   (PSYCHOLOGICAL TESTS)
            (ELECTROENCEPHALOGRAPHY)

CHERNOV, I.S.; POYARKOV, A.A.; ZOTOV, V.A., kand. veter. nauk (Smolenskaya
oblast'); KRYUCHKOV, I.I., starshiy veterinarnyy vrach

Prophylaxis of dictyocaulosis in cattle; a selection of articles.
Veterinariia 41 no.4:45-48 Ap '65.   (MIRA 18:6)

1. Upravleniya veterinarii Ministerstva sel'skogo khozyaystva
RSFSR (for Chernov). 2. Nachal'nik veterinarnogo otdela Smolenskoy
oblasti (for Poyarkov). 3. Zaveduyushchiy Rzhevskoy veterinarnoy
laboratoriyey Kalininskoy oblasti (for Kryuchkov).

POYARKOV, A.A.; VASILEVA, T.P.; VOROB'YEV, M.A.; DOROSHINA, M.I.

Testing hexachloro-para-xylene against fascioliasis in sheep.
Veterinariia 41 no.3:45-50 F '65.

1. Nachal'nik Oblastnogo veterinarnogo otdela Smolenskoy oblasti
(for Poyarkov). 2. Vsesoyuznyy institut gel'mintologii imeni
akademika K.I. Skryabina (for all except Poyarkov).

Melting steel for drill pipes with various types of Khalilov cast iron. V. I. Lapitskii and A. M. Puyarkov. *Teoriya Prakt. Met.* 11, No. 10–11, 31–7(1939).—The object of the expts. was to select slightly alloyed steel with improved mech. properties for pipes used in deep drilling, to develop a method for the production of this steel from the Khalilov cast Fe in an open-hearth furnace, to roll ingots for 4-in. drill pipes, to develop a proper heat treatment of the pipes and to analyze the mech. properties of the pipes at different stages of production. Cast iron (contg. C 4.30–4.52, Si 0.23–0.08, Mn 0.39–0.80, P 0.242–0.258, S 0.012–0.027, Cr 2.01–2.33 and Ni 0.77–0.88%) 5500, scrap Fe 6000, Fe ore 600, limestone 700 and bauxite 175 kg. were charged into a 10-ton open-hearth furnace. The temp. of the initial period of melting was 1300–300°; of the final stage, 1420–40°. The product satisfies all requirements for deep-drilling pipes. Its chem. compn. is C 0.44–0.50, Mn 0.51–0.80, Si 0.18–0.31, P 0.021–0.04, S 0.024–0.028, Cr 0.13–0.27 and Ni 0.32–0.63%. In lab. expts. increase of Fe oxides did not lower the m. p. of slags either rich or poor in Cr_2O_3. This is attributed to the unfavorable ratio FeO:SiO_2. Increase of Al_2O_3 in the slag to above 7% had no effect on the m. p. of the slag. Lowering the m. p. of slag contg. Al_2O_3 15–20% (if the sum of SiO_2, FeO, MnO and CaO is taken as 100%) is due to the binding of CaO with Al_2O_3. A 21.0–0.38% increase of silica in the slag lowered the m. p. by about 150° (regardless of the concn. of Cr_2O_3). Addn. of 10–15% of scoria contg. Al_2O_3 23.8, SiO_2 18.1, FeO 23.5 and $K_2O + Na_2O$ 4.7% lowered the m. p. of the slag by 80–120°. A 10–15% addn. of bauxite lowered the m. p. of slags considerably. The m. p. of Cr slags must be regarded as the m. p. of the low-melting mass which contains hard particles of Cr. This temp. depends on the contents of SiO_2, CaO, (FeO + MnO) and Al_2O_3. A triangular diagram of the system CaO–(FeO + MnO)–SiO_2 was constructed on the basis of the expts.

W. R. Henn

VOLOVIK, F.L.; GORSHTEYN, P.I.; ZELENSKIY, V.D.; POYARKOV, A.M.

Use of forsterite checkers. Stal' 20 no.2:125-127 F '60.
(MIRA 13:5)
(Open-hearth furnaces) (Firebrick)

18.3200

77608
SOV/133-60-2-3/25

AUTHORS: Volovik, F. L., Gorshtein, P. I., Zelenskiy, V. D.,
             Poyarkov, A. M.

TITLE: Concerning Application of Forsterite Checkers

PERIODICAL: Stal', 1960, Nr 2, pp 125-127 (USSR)

ABSTRACT: The purpose of this investigation was to establish the
             reasons for the impaired performance of the furnace after
             replacement of dynas brick by forsterite brick in the 8-12
             top checker rows. It was found that decreasing heat
             conductivity of forsterite brick has little influence on
             the thermal performance of the checkers. The main cause
             of poorer performance is the irregularity of smoke and
             air distribution in the horizontal cross section. The
             distribution of temperature in the horizontal cross section
             was determined on a fire model and on the working checkers
             of a 185-ton furnace. The checkers have a cubic shape
             with rib size of 6 m, shown in Fig. 2.

Card 1/6
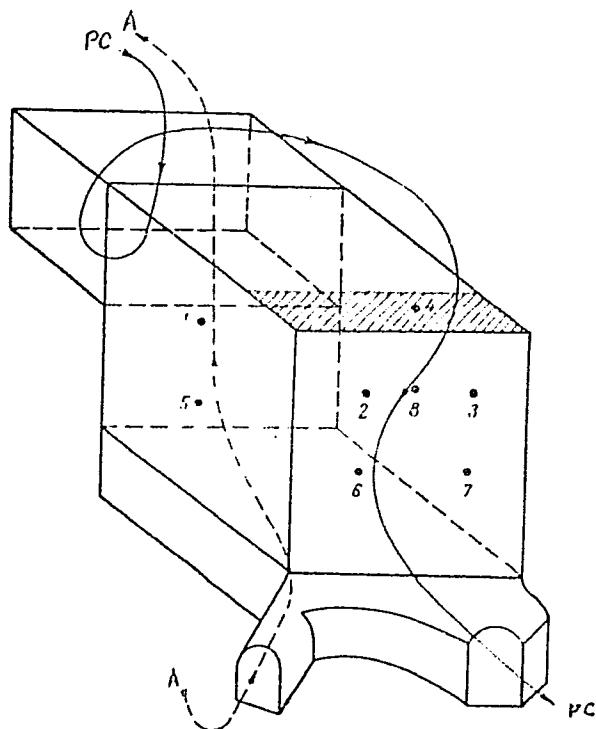
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SOV/133-60-2-3/25

Fig. 2. Schematic
diagram of thermocouple
location (1-8) and of
movement of products
of combustion (PC) and
air (A) through the
right furnace checkers.

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Concerning Application of
Forsterite Checkers

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The temperature was measured with a 2.5 m long thermocouple in two horizontal planes (Fig. 2). The measurement results shown in Fig. 3 lead to the following conclusions: (1) Combustion products outgoing from vertical ducts make turn in the slag pocket and move mainly to the front wall of the regenerator (Fig. 2). (2) Most of the combustion products pass through the checker area adjacent to the front wall, and most of the air through the checker area adjacent to the bridge wall. (3) The distribution of temperature showed that the gas and air flows do not coincide, which leads to poorer heating of the air. (4) The uniform distribution of the smoke and air by means of temporary and partial closing of the slag pocket allows a decrease in fuel consumption and an increase in furnace productivity. Credit is given to Orman, V. Ya., for his participation. There are 5 figures; and 3 Soviet references.

Card 3/6

Concerning Application of
Forsterite Checkers
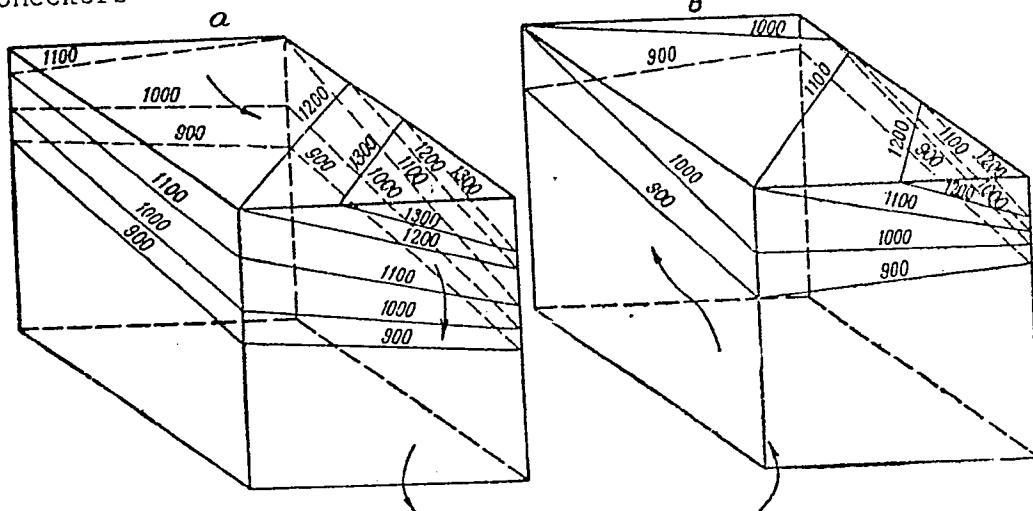
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Fig. 3

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Co...erning Application of
Forsterite Checkers
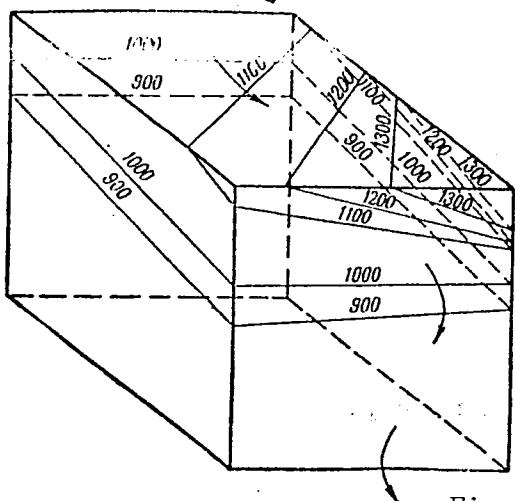
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Fig. 3 (cont'd)
(Caption Card 6/6)

Concerning Application of
Forsterite Checkers

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Fig. 3.   Temperature distribution (in °C) in right
checkers of open-hearth furnaces. (a) Toward end
of passage of combustion products (in charging);
(b) same, toward end of air passage period; (c)
toward end of combustion product passage in smelting;
(d) same, toward end of air passage.

Card 6/6

BAPTIZMANSKIY, V.I.; DUBROVSKIY, Yu.A.; LAPITSKIY, V.I.; POYARKOV, A.M.;
ROSTOVTSEV, S.T.; SESYUK, G.S.; OGRYZKIN, Ye.M

Refining highly phosphorous cast iron in converters with oxygen
blow. Report No.1. Nauch.dokl.vys.shkoly; met. no.1:25-27   '59.
(MIRA 12:5)

1. Dnepropetrovskiy metallurgicheskiy institut.
(Cast iron--Metallurgy)
(Converters)

BAPTIZMANSKIY, V.I.; DUBROVSKIY, Yu.A.; LAPITSKIY, V.I.; POYARKOV, A.M.;
    ROSTOVTSEV, S.T.; SESYUK, G.S.; OGRYZKIN, Ye.M.

    Refining highly phosphorous cast iron in converters with oxygen
    blow. Report No. 2. Nauch.dokl.vys.shkoly; met. no.1:28-33 '59.
                                                (MIRA 12:5)

    1. Dnepropetrovskiy metallurgicheskiy institut.
                (Cast iron--Metallurgy)
                    (Converters)

18(3)
AUTHORS: Baptizmanskiy, V. I., Dubrovskiy, Yu. A., SOV/163-59-1-6/50
               Lapitskiy, V. I., Boyarkov, A. M., Rostovtsev, S. T.,
               Sesyuk, G. S., Ogryzkin, Ye. M.

TITLE: Conversion of High-phosphorus Pig Iron in Oxygen-blast Con-
               verters (Peredel vysokofosforistogo chuguna v konvertere s
               kislorodnym dut'yem). Communication I. Conversion of High-
               phosphorus Pig Iron in a Converter With Combined Lateral Blast
               (Soobshcheniye I. Peredel vysokofosforistogo chuguna v konver-
               tere s bokovym kombinirovannym dut'yem)

PERIODICAL: Nauchnyye doklady vysshey shkoly, Metallurgiya, 1959, Nr 1,
               pp 25-27 (USSR)

ABSTRACT: The results obtained by the investigations carried out in the
               steel melting laboratory of the DMI from 1956-1957 are presen-
               ted. The collaborators of the IChM AS UkrSSR assisted in the
               recording of the case histories of the heats, and in the
               selection and analysis of metal and slag samples. In the IChM
               AS UkrSSR in collaboration with the DMI the converting of
               Kerch pig iron in the laboratory furnace was investigated. For
               this purpose the 0.9-1.0 t laboratory converter was adapted to
Card 1/4   combined lateral blasting. The converter had a capacity of

Conversion of High-phosphorus Pig Iron in Oxygen-   SOV/163-59-1-6/50
blast Converters. Communication I. Conversion of High-phosphorus Pig Iron in
a Converter With Combined Lateral Blast

$0.85\ m^3$, the depth of the metal bath was 355 mm. Pig iron of
the following composition was converted: 3.4 % C-3.8 % C,
1.3-1.8 % P, 1.0-1.3 % Mn, 1.10-0.5 % Si, 0.08-0.20 % S,
0.10-0.25 % V. The pig iron had been melted in a cupola fur-
nace. Previous to converting it had a temperature of
1,140-1,200°. Limestone was added to a percentage of 13-15
of the charge weight. A special device permitted to add the
fluxing agents at any moment without interruption of the con-
verting process. In the experiments with combined blasting
the air was supplied to the converter through 4 tuyeres with
a diameter of 40 mm at a pressure of 0.15-0.25 atmospheres
excess pressure by a centrifugal blower with a capacity of
50-$60\ m^3$/min. The oxygen was supplied through two special
copper tubes mounted within the tuyeres under 6-10 atmospheres
excess pressure. The flow rate of oxygen varied between

1.7-$4.2\ m^3$/min the oxygen consumption per ton being 15-25 m^3.
In this investigation special interest was given to problems
of slag formation and of early dephosphorization. Several

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Conversion of High-phosphorus Pig Iron in Oxygen-   SOV/163-59-1-6/50
blast Converters. Communication I. Conversion of High-phosphorus Pig Iron in
a Converter With Combined Lateral Blast

methods of blast arrangement were studied. The best results
were obtained with the second test series where the inclination
of the tuyères was reduced to 0-5° (from the horizontal) and
the flow rate was reduced by closing two tuyères. These
measures lead to quite respectable results. A comparison with
information from publications (Refs 8-10) showed that the
formation of slag with a high solution value and the oxidation
of the phosphorus proceeds much faster in a converter with a
combined air-oxygen blast than in a converter with only
bottom or lateral air blast. In converters with combined
blast it is possible to produce a slag with a P_2O_5 content

meeting the specifications and an ingot steel with a low
nitrogen and phosphorus content (< 0.04 %) without any consider-
able overconverting. The experiments showed that the following
measures must be taken in order to accelerate slag formation
and dephosphorization: 1) During the initial stage of the
process (25-30 % of the total time) the blast must be directed
onto the metal surface or into the upper layer of the bath.

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Conversion of High-phosphorus Pig Iron in Oxygen-   SOV/163-59-1-6/50
blast Converters. Communication I. Conversion of High-phosphorus Pig Iron in
a Converter With Combined Lateral Blast

        2) A well calcined limestone must be used and it must be given
        in portions at certain intervals There are 10 references,
        5 of which are Soviet.

ASSOCIATION: Dnepropetrovskiy metallurgicheskiy institut (Dnepropetrovsk
              Institute of Metallurgy)

SUBMITTED: June 5, 1958

Card 4/4

18(3)

AUTHORS: Baptizmanskiy, V. I., Dubrovskiy, Yu. A., SOV/163-59-1-7/50
Lapitskiy, V. I., Poyarkov, A. M., Rostovtsev, S. T.,
Sesyuk, G. S., Ogryzkin, Ye. M.

TITLE: Conversion of High-phosphorus Pig Iron in an Oxygen-blast Converter (Peredel vysokofosforistogo chuguna v konvertere s kislorodnym dut'yem). Communication II. Conversion of High-phosphorus Pig Iron by Top Blasting (Soobshcheniye II. Peredel vysokofosforistogo chuguna v konvertere s verkhnim kislorodnym dut'yem)

PERIODICAL: Nauchnyye doklady vysshey shkoly, Metallurgiya, 1959, Nr 1, pp 28-33 (USSR)

ABSTRACT: This investigation was carried out with water cooled blast tuyères with a diameter of 8-10 mm, blasting oxygen with a purity of 94-98 % under 5-8 atmospheres excess pressure into the converter. The rate of oxygen supply varied between 3.3-6.1 m^3/min, the average oxygen consumption for the last heats was 70 m^3/ton. Limestone and for some heats pig iron with a bauxite content of 1.5-2.0 % were used as a fluxing agent. For the last heats limestone-ore briquettes with an

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Conversion of High-phosphorus Pig Iron in an Oxygen-   SOV/163-59-1-7/50
blast Converter. Communication II. Conversion of High-phosphorus Pig Iron by
Top Blasting

ore content of about 50 % were used. The fluxing agents were
added in portions, 3 to 4 times, in intervals of 1.5-4.0 minu-
tes. All in all 12 experimental heats were prepared. It
appeared from the results that the course of slag formation
and of dephosphorization in converting high-phosphorus pig
iron in a converter with a top oxygen blast are essentially
dependent upon the following factors: 1) Upon the iron oxide
constituent in the primary slag. 2) Upon the oxygen supply and
the rate of oxygen consumption by the heat. Both factors are
determined by the circulation in the heat. 3) Upon the state
and the composition of the slag constituents. 4) Upon the
thickness of the solid phase layer in the converter during
the initial stage of converting. 5) Upon the temperature con-
ditions during blasting. The experiments showed that 1) If
high-phosphorus pig iron is converted in oxygen top-blast con-
verters the formation of a basic slag with a high solution
value, which can be brought up to the specified P_2O_5 content

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can be guaranteed at the beginning of blasting (by adding up

Conversion of High-phosphorus Pig Iron in an Oxygen-   SOV/163-59-1-7/50
blast Converter. Communication II. Conversion of High-phosphorus Pig Iron by
Top Blasting

to 15 % of limestone). By the same way an early dephosphoriza-
tion may be ensured and thus a metal with a phosphorus con-
tent of less than 0.1 % at a high carbonconcentration (1-1.5 %)
can be produced. This may be achived without using fluor-spar
or rabbling the slag. 2) In converters of such a type carbon
steel can be produced from basic Bessemer pig iron with a low
phosphorus content (< 0.05 %) and a low nitrogen content. This
may be achieved by stopping the process at the specified carbon
content. 3) The formation of a slag with a high solution value
and the oxidation of phosphorus in a converter with combined
lateral blasting (with a separate air and oxygen supply) pro-
ceed much faster than in converters with a bottom and lateral
air blast. There are 5 figures and 2 Soviet references.

ASSOCIATION: Dnepropetrovskiy metallurgicheskiy institut (Dnepropetrovsk
                Institute of Metallurgy)

SUBMITTED: June 5, 1958
Card 3/3

POYARKOV, Aleksey Mikhailovich

    Proizvodstvo stali /Steel production/   Khar'kov,
Metallurgizdat, 1955.
    519 p. diagrs., tables.
    "Literatura": p. 513-514

N/5
733
.P8

POYARKOV, Aleksei Mikhailovich.

Steel production; textbook for technical schools Khar'kov, Gos. nauchno-tekhn. izd-vo
lit-ry po chernoi i tsvetnoi metallurgii, 1955. 519 p. (55-36925)

TN730.P63

1. Steel - Metallurgy.

POYARKOV, Aleksey Mikhaylovich; BOYARSHINOV, V.A., redaktor; KAZACHKOV,Ye.A., redaktor; NETESIN, A.Ye., redaktor; OYKS, G.N., redaktor; LIBERMAN, S.S., redaktor; ANDREYEV, S.P., tekhnicheskiy redaktor.

[The production of steel] Proizvodstvo stali. Khar'kov, Gos.nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1955, 519 p.
        (Steel)   (MIRA 8:4)

POYARKOV, Aleksey Mikhaylovich; KOTIN, A.G., otv. red.; KRAVTSOV,
P.Ya., otv. red.; LIBERMAN, S.S., red. izd-va; ANDREYEV, S.F.,
tekhn. red.

[Steelmaking]Proizvodstvo stali. Izd.2., ispr. i dop. Khar'kov,
Metallurgizdat, 1962. 520 p. (MIRA 15:10)
(Steel--Metallurgy)

POYARKOV, A.S., inzh.

New automatic bale feeder-breaker. Tekst.prom, 21 no.7:15-16
Jl '61.
(MIRA 14:8)

(Spinning machinery)

POYARKOV, A.S.

Electromechanical drive for the valve gates of branched air ducts.
Tekst.prom. 20 no.3:72-73 Mr '60.   (MIRA 14:5)

1. Nachal'nik tsekha fabriki "Krasnoya Vereteno".
          (Remote control)   (Pneumatic tube transportation)
              (Textile factories—Heating and ventilation)

VAYNSHTEYN, G.A.; POYARKOV, A.S.

     Continuous production line for the manufacture of batting and
    padding cotton. Tekst.prom. 20 no.10:56-58 O'60. (MIRA 13:11)
       (Assembly-line methods) (Cotton manufacture)

POYARKOV, P. F.

22449. POYARKOV, P. F. Malonapornye vodosnuski pri vysokonapornykh plotinakh.
gidrotekhn. Stroit-vo 1949, No. 7, S. 21-25

SO: LETOPIS' No. 30, 1949

ORLOVSKIY, M.B.; POYARKOV, B.V.

Find of Famennian sediments in the Katran Range (northern slope of Alay Range). Mat. po geol. Tian'-Shania no.4:73-75 '64.

Stratigraphic position of the conglomerates of the Al'ka-Kara Range, and the Ilyachin and Ishkal' Mountains (southern Fergana). Ibid.:76-88   (MIRA 17:10)

POYARKOV, B. V.

Foraminifera from Famen and Tournai deposits in the Tien Shan
western spurs. Vest. LGU 12 no.2:26-41 '57.   (MIRA 11:2)
        (Tien Shan--Foraminifera, Fossil)

POYARKOV, B.V. Cand Geol-min Sci -- (diss) "Stratigraphy and

foraminifers of the Famennian and Tournaisian deposits of the

western spurs of Tyan'- Shan'." Len,1957. 22 pp 20 cm.

(Min of Higher Education. Len Order of Lenin State Univ im A.A. Zhdanov).

100 copies. (KL, 23-57, 110).

ORLOVSKIY, M.B.; POYARKOV, B.V.

New data on the stratigraphy of Tournai sediments in southern
Fergana. Izv.AN Kir. SSR. Ser. est. i tekh.nauk 4 no.7:5-18
no.7:5-18 '62.   (MIRA 16:3)
                    (Fergana--Geology, Stratigraphic)

ORLOVSKIY, M.B.; POYARKOV, B.V.

Bryozoa from Famennian sediments in the Chatkal-Naryn zone of the
Tien Shan. Izv.AN Kir. SSR. Ser. est. i tekh.nauk 4 no.7:85-90
'62.   (MIRA 16:3)
                    (Tien Shan--Polyzoa, Fossil)

ORLOVSKIY, M.B.; POYARKOV, B.V.

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