ROMOVITERIY, V.1.; SEIMYAKIN, V.N.

Practice in using carbonate surveying in prospecting for midore deposits in Aldan District. Sov.geol. 8 no.10:145-146 0 165. (MiR+ 18.12)

BOROVITSKIY, Ya.

Wages based on the finished product. Sots.trud 7 no.4:123-127 Ap *62. (MIRA 16:1)

1. Nachal'nik otdela truda i zarabotnoy platy Krasnodarskogo zavoda elektroizmeritel'nykh priborov.

(Krasnodar-Wages-Instrument industry)

BOROVITSKIY, Ye.V., inzhener.

The Technology House is the center of technical propaganda in industry. Metallurg me.7:37-38 J1 56. (MLRA 9:9)

1.Otvetstvennyy upelnemechennyy po tekhnicheskey propagande Stalinskiy metallurgicheskiy saved.

(Technology)

SHURAK, L.M.; RYBALKO, I.A.; BOROVITSKIY, Ye.V.

Production of cementless slag concrete blocks. Stroi. mat. 9 no.6:20-21 Je *63. (MIRA 17:8)

l. Glavnyy inzh. Donetskogo savoda stroitel'nykh materialov (for Shurak). 2. Nachal'nik laboratorji i otdela tekhnicheskogo kontrolya Donetskogo zavoda stroitel'nykh materialov (for Rybalko). 3. Glavnyy mekhanik Donetskogo zavoda stroitel'nykh materialov (for Borovitskiy).

LIBOR, Oszkar; BORCVITZ, Peter

Rain resistance testing of clay minerals and clay mineral products applicable in spraying. Agrokem talk uan 12 no.4: 613-620 D '63.

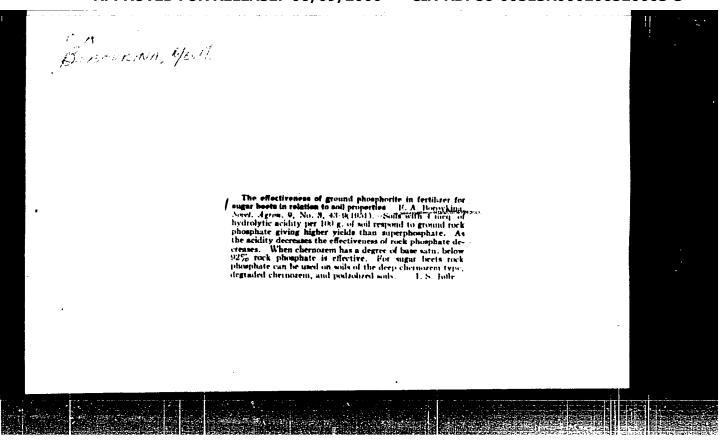
1. Department of Chemical Technology, Lorand Ectvos University, Budapest.

BOROVKA, S.

"Experiences of Our Stakhanovite School." p. 1/1 (Hutnik, Vol. 3, no. 6, June 1953, Praha)

SO: Monthly List of East European Accessions, Vol. 3, no. 2, Library of Congress, Feb 1954, Uncl.

Produce defectless goods. Kozh.-cbuv.grom. 7 no.3:36 Mr 165.
(MIRA 18:10)



BOROVKO, N.G.

Halloysite from Tertiary sediments in Bashkiria. Zap. Vses. min. ob-va 89 no.3:361-364 '60. (MIRA 13:8) (Bashkiria-Halloysite)

Origin of Polyud rocks in the Northern Ural Mountains. Trudy
VSEGEI 86:103-110 *62. (MIRA 17:11)

BOROVKO, N.N.

Relationships between the niobium, uranium, and thorium contents in rare metal carbonatites. Zap.Vses.min.ob-va 90 no.6:637-642 (MIRA 15:2)

Possibility of determining the dip direction of rocks by electric prospecting. Inform.sbor.VSEGEI no.45:51-55 '61. (MIRA 14:12) (Electric prospecting)

BOROVKO, N.N.

Selection of the scale line in geophysical prospecting. Inform. sbor.VSEGEI no.45:131-136 '61. (MIRA 14:12) (Prospecting—Geophysical methods)

BOROVKO, N.N.

Use of geophysical methods in the prospecting for rare metal carbonatites. Inform.sbor.VSEGEI no.45:3-13 '61. (MIRA 14:12) (Prospecting—Geophysical methods) (Carbonatites)

BOROVKO, V. A.

Soedinenie i sowmeshchenie putei. Connecting and combining of tracks7. Moskva, Transzheldorizday, 1942. 301 p. diagrs. (1fold)
"Ferechen literatury": p. 23027.

PLC: TF266.B6

SO: SOVIET TRANSPORTATION AND CONSUMMENTATIONS, A BIBLIOGRAPHY, Library of Congress Reference Department, Washington, 1952, Unclassified.

Calculation on meeting the sunrise and sunset while in flight.

Grazhd.ev. 12 no.9:18 S '55.

(MIRA 10:7)

(Aeronautical instruments)

BOROVKOV, A.A.

Remodeling workers facilities at hydrolysis plants. Gidroliz. i lesokhim. prom. 11 no.326-28 58. (MIRA 11:5)

1. Gosudarstvennyy institut po proyektirovaniyu gidroliznykh zavodov.
(Hydrolysis) (Employees' buildings)

BOROVKOV, A.A. (Novosibirsk)

Remarks on Wiener's and Hlackwell's theorems. Teor.veroiat. i ee prim. 9 no.2:331-343 *64 (MIRA 17:7)

1. Institut matematiki Sibirskogo otdeleniya AN SSSR.

AUTHOR:

Borovkov, A.A.

307/20-121-1-2/

TITLE:

Some Problems on Large Deviations of the Maximum of the Sums From Independent Uniformly Distributed Random Variables (Nekotoryye zadachi bol'shikh ukloneniy maksimuma summ nezavisimykh odinakovo raspredelennykh sluchaynykh velichin)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol 121, Nr 1, pp 13-15 (USSR)

ABSTRACT:

Let \(\xi_1, \xi_2, \ldots\) be a sequence of independent uniformly distributed random variables; $s_n = \sum_{k=1}^n \xi_k$; $s_n = \max_{0 \le v \le n} s_v$. The author asks for the asymptotic behavior of the probability $P(\overline{s}_n < x)$ for $n \to \infty$. The solution of the problem in the special case where ξ_{k} may be \pm 1 only (with probabilities p and 1-p) gave Feller /Ref 1]. The author considers the more general case in which the \S_k are bounded and have a lattice distribution. In a long theorem the sought asymptotic expansions are given without proof for the following cases: a) x does not depend on n, b) $x = x(n) = 0(\sqrt{n})$ and c) x = x(n) = 0(n).

There are 8 references, 3 of which are Soviet, 2 American, 2 Gorman,

and 1 French.

Card 1/2

Some Problems on Large Deviations of the Maximum of the Sums SOV/20-121-1-2/57 From Independent Uniformly Distributed Random Variables

PRESENTED: February 28, 1958, by A.N.Kolmogorov, Academician

SUBMITTED: February 24, 1958

1. Random distribution 2. Mathematics

Card 2/2

BOROVKOV, A.A. (MORCOW)

٠, ٤

Limit theorems on the distribution of the maximum of sums of bounded latticed random variables. Part 1. Teor. veroiat. i ee prim. 5 no.2:137-171 '60. (MIRA 13:9) (Distribution (Probability theory))

Limit theorems on the distribution of the maximum of sums of bounded latticed random variables. Part 2. Teor. veroiat. i ee prim. 5 no. 4:377-392 '60. (MIRA 13:12) (Distribution (Probability theory))

Local theore components.	ms and moments Teor. veroiat.	for maxima of i ee prim. 6	sums of latt no.1:108-110	61.	
	(Distribution			(MIRA 14:6)	
			1		
					•

Borovkov, a.a.

PHASE I BOOK EXPLOITATION

SOV/6371

- Vsesoyuznoye soveshchaniye po teorii veroyatnostey i matematicheskoy statistike. 6th; Vilnius, 1960.
- Trudy VI Vsesoyuznogo soveshchaniya po teorii veroyatnostey i matematicheskoy statistike i kollokviuma po raspredeleniyam v beskonechnomernykh prostranstvakh (Transactions of the Sixth Conference on Probability Theory and Mathematical Statistics and of the Symposium on Distributions in Infinite-Dimensional Spaces held in Vilnius 5-10 September 1960) Vilnius, Gospolitizdat LitSSR, 1962. 493 p. 2500 copies printed.
- Sponsoring Agency: Akademiya nauk Litovskoy SSR. Vil'nyusskiy gosudarstvennyy universitet imeni V. Kapsukasa. Matematicheskiy institut imeni V. A. Steklova, Akademiya nauk SSSR.
- Editorial Board: N. N. Vorob'yev, B. V. Gnedenko, R. L. Dobrushin, Ye. B. Dynkin, A. N. Kolmogorov, I. P. Kubilyus, Yu. V. Linnik, Yu. V. Prokhorov, N. V. Smirnov, V. A. Statulyavichyus, and A. M. Yaglom. Ed.: D. Melihene; Tech. Ed.: O. Pakerite.

 Card 1/172

Transactions of the Sixth Conference (Cont.)

SOV/6371

PURPOSE: Dissemination of scientific information.

COVERAGE: Because of various editorial difficulties, not all papers presented at the Conference could be included. The 86 papers presented here are divided by subject matter into 6 sections (see Table of Contents). The editors thank the members of the Mathematical Section of the Institute of Physics and Mathematics of the Lithuanian Academy of Sciences and the Department of Probability Theory and Number Theory at Vil'nyus University, particularly A. K. Aleshkyavichene, A. A. Mitalauskas, B. A. Ryauba, and R. V. Uzhdavinis. References, cited in the text at the end of the individual reports, comprise 489 entries: 316 Soviet (a number of which are translations), 2 Hungarian, 1 Polish, 139 English, 20 French, 10 German, and 1 Italian.

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2.	Borovkov, A. A. Asymptotic Expansions and Large Deviations in the Problem of Two Samples	; 5
3.	Borovkov, A. A. On the Distribution of the First Jump	
4.	Vilkauskas, L. I. Zones of Normal Convergence in the Multidimensional Case	7
5.	Volkov, I. S. Limit Theorems for Large Deviations in the Case of a Finite Markov Chain	23
6.	Yemel'yanov, G. V. On Local Limit Theorems for Densities	25 35
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PHASE I BOOK EXPLOITATION

SOV/6371

Vsesoyuznoye soveshchaniye po teorii veroyatnostey i matematicheskoy statistike. 6th, Vilnius, 1960.

Trudy VI Vsesoyuznogo soveshchaniya po teorii veroyatnostey i matematicheskoy statistike i kollokviuma po raspredeleniyam v beskonechnomernykh prostranstvakh (Transactions of the Sixth Conference on Probability Theory and Mathematical Statistics and of the Symposium on Distributions in Infinite-Dimensional Spaces held in Vilnius 5-10 September 1960) Vilnius, Gospolitizdat LitSSR, 1962.

Sponsoring Agency: Akademiya nauk Litovskoy SSR. Vil'nyusskiy gosudarstvennyy universitet imeni V. Kapsukasa. Matematicheskiy institut imeni V. A. Steklova, Akademiya nauk SSSR.

Editorial Board: N. N. Vorob'yev, B. V. Gnedenko, R. L. Dobrushin, Ye. B. Dynkin, A. N. Kolmogorov, I. P. Kubilyus, Yu. V. Linnik, Yu. V. Prokhorov, N. V. Smirnov, V. A. Statulyavichyus, and A. M. Yaglom. Ed.: D. Melihene; Tech. Ed.: O. Pakerite.

Card 1/28

ransactions of the Sixth Conference (Cont.)

SOV/6371

FURFOSE: Dissemination of scientific information.

COVERAGE: Because of various editorial difficulties, not all papers presented at the Conference could be included. The 86 papers presented here are divided by subject matter into 6 sections (see Table of Contents). The editors thank the members of the Mathematical Section of the Institute of Physics and Mathematics of the Lithuanian Academy of Sciences and the Department of Probability Theory and Number Theory at Vil'nyus University, particularly A. K. Aleshkyavichene, A. A. Mitalauskas, B. A. Ryauba, and R. V. Uzhdavinis. References, cited in the text at the end of the individual reports, comprise 489 entries: 316 Soviet (a number of which are translations), 2 Hungarian, 1 Polish, 139 English, 20 French, 10 German, and 1 Italian.

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Preface of the editors

IX

Card 2/29

3 1	Pansactions of the Sixth Conference (Cont.) SOV/6371
	LIMIT THEOREMS
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2.	Borovkov, A. A. Asymptotic Expansions and Large Deviations
	Borovkov, A. A. On the Distribution of the First Jump
	Vilkauskas, L. L. Zones of Normal Convergence in the
5.	Volkov, I. S. Limit Theorems for Large Deviations in the
. 6.	Memel'yanov, G. V. On Local Limit Theorems for Deposits
	d 3/29

16.6209

S/199/62/003/005/001/004 B112/B186

AUTHOR:

Borovkov, A. A.

TITLE:

New limit theorems in boundary problems for sums of

independent addends

PERIODICAL: Sibirskiy matematicheskiy zhurnal, v. 3, no. 5, 1962, 645-694

TEXT: The object of consideration is a sequence ξ_1 , ξ_2 , ... of independent random quantities with a distribution function F(t) and the dispersion 1. The main results of the paper refer to the distribution of the sums

 $s_n = \sum_{k=0}^n \xi_k$ and $s_n = \max_{0 \le k \le n} s_k$. The method applied is based on the idea of

factorization of functions which are associated to a ring of Fourier-Stieltjes transformations (V-factorization). The concept of V-factorization enables the author to find asymptotic representations of generating functions by means of lemmas of the Tauberian type. The meaning of the coefficients of the asymptotic expansions is completely clarified and an algorithm of their computation is derived. Local and integral theorems Card 1/2

New limit theorems in boundary...

S/199/62/003/005/001/004 B112/B186

for the time of first passage, the limiting conditional distribution of the value of the first jump, the limiting distribution of $x - s_n$ for $s_n < x$, theorems concerning the distribution of s_n , and others are obtained.

/B

SUBMITTED: December 18, 1961

Card 2/2

(MIRA 15:5)

BOROVKOV, A.A. (Novosibirsk)

Some theorems on nonlatticed wandering. Teor. veroiat. i ee prim. 7 no.2:170_18/ 162

(Probabilities)

70075

16.6200

5/038/62/026/004/002/002 B112/B104

AUTHOR:

Borovkov, A. A.

TITLE:

A problem concerning two samples

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Seriya matematicheskaya,

v. 26, no. 4, 1962, 605 - 624

TEXT: N. V. Smirnov's statistics $F_{n_1 n_2} = \sqrt{n_1 n_2/n} \sup_{t} \left[F_{n_2}(t) - F_{n_1}(t) \right],$

 $n = n_1 + n_2$, are applied to the two empirical distribution functions

 $F_{n_1}(t)$ and $F_{n_2}(t)$ and the following theorem is derived: If $q = n_1/n \le 1/2$

and if no representing the greatest common divisor of no and no tends to

infinity, then for $z \le c \sqrt{m_0}$, $c < \sqrt{\pi/2}$ it is valid to estimate that: $P(F_{n_1 n_2} < z) = 1 - e^{nB(z/\sqrt{n})} \begin{cases} \frac{s_*1}{j,k=0} & B_{jk}(z/\sqrt{n}_1)^{j} n_1^{-k} + P_{s,1} \end{cases}, \text{ where }$

Card 1/2

A problem concerning two samples S/038/62/026/004/002/002 B112/B104

 $P_{s,l} = O((z/\sqrt{n_1})^{s+1}) + O(n_1^{-l-1}) + O((zn_1 + \sqrt{n})h^{z\sqrt{n_0}}/n_0^{3/2})$ (h<1). The coefficients B_{jk} are determined explicitly. This estimate is an essential improvement of N. V. Smirnov's formula

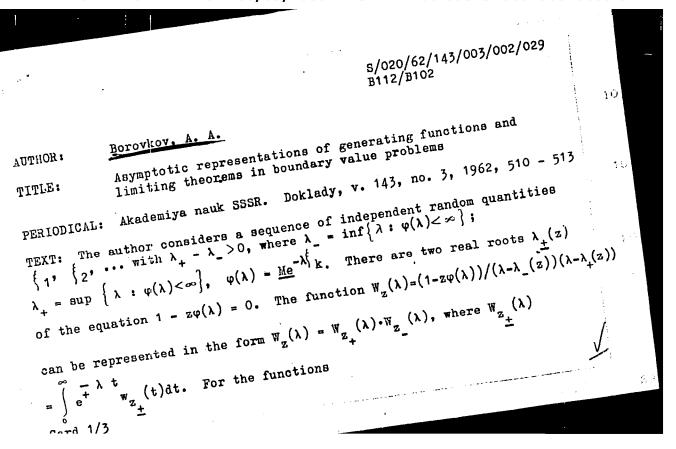
 $n_1 \to \infty, n_2 \to \infty$ $P(F_{n_1 n_2} < z) = 1 - e^{-2z^2}$

SUBMITTED: February 11, 1961

Card 2/2

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206520003-3



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Asymptotic representations of ... \frac{3/020/62/143/003/002/029}{B112/B102}
P_{x}^{p} = P(\hat{s}_{n} \geqslant x), \quad P_{x,y}^{p} = P(\hat{s}_{n} \geqslant x, s_{n} < x - y), \quad P_{x,y}^{p} = P(s_{n} > x - y), \quad P_{x,y}^{p} = P(s_{n} > x - y), \quad P_{x,y}^{p} = P(s_{n} < x - y), \quad P_{x,y}^{p} = P(s_{n
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"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206520003-3

Asymptotic representations of ...

S/020/62/143/003/002/029 B112/B102

to be the generating function of $P_{x}(z)$, $j_{x,y}(z)$. There are 3 Soviet references.

ASSOCIATION: Institut matematiki Sibirskogo otdeleniya Akademii nauk SSSR (Mathematical Institute of the Siberian Branch of the Academy

of Sciences USSR)

PRESENTED: December 8, 1961, by A. N. Kolmogorov, Academician

SUBMITTED: December 12, 1961

Card 3/3

BOROVKOV, A.A.

Probability theory applied to two economic problems. Dokl. AN SSSR 146 no.5:983-986 0 162. (MIRA 15:10)

1. Institut matematiki Sibirskogo otdleniya AN SSSR. Predstavleno akademikom S.L.Sobolevym.
(Limit theorems (Probability theory))

。 1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,19 BDS/EWT(d)/FCC(w)--AFFTC/ASD/ESD-3/IJP(C)/APGC L 17237-63 S/(1052/63/008/003/0251./0263 ACCESSION NR: AP3005658 A. A. (Novosibirsk) Borovkov, TITLE: Discrete queuing systems SOURCE: Teoriya veroyatnostey i yeye primeneniya, v. 8, no. 3, 1963, 251-263 TOPIC TAGS: stationary distribution, ergodicity, queuing, discrete ABSTRACT: Queuing systems are considered in which calls come by groups of size 5 and are served by groups of size m; the period of time between two successive arrivals of groups of calls is equal to T; the time of a service is equal to O: The quantities &, m, T and T are discrete random variables. The author considers systems of two forms. 1. $(\xi, \tau; m, \sigma; \Psi)$: if the service system is free, then it begins to operate immediately upon arrival of even one call. If the system is occupied then the calls line up. The calls are serviced in the order of their arrival with accuracy up to order within the arrived groups. 2, [ξ, τ; η, σ; II]: service can be initiated only at times 0, σ_1 , $\sigma_1+\sigma_2$, $\sigma_1+\sigma_2+\sigma_3$,..., where σ_k are independent and identically distributed from σ_* . If the system is occupied then the calls are treated as in the first system. Without loss of generality it can Card 1/2

L 17237-63

ACCESSION NR: AP3005658

be assumed that the greatest common divisor of the possible values of the random variables 5, m and 7, of equal 1, 7, 0, o>0. The author gives very natural sufficient conditions for systems of form I, II to be ergodic and finds explicit solutions for important particular cases of such systems. Some general statements on the existence of stationary distributions are proved, and a method for finding the stationary distribution with the help of the stationary distribution for the imbedded Markov chain is described. The stationary distributions are found each time not only for so-called imbedded Markov chains but also for the systems themselves. Discreteness of 7 and of is not essential if at least one of these variables is exponentially distributed. Finally, the author considers an example of a system of mixed type. Orig. art. has: 25 formulas.

ASSOCIATION: Institut matematiki Sibirskogo otdeleniya AN SSSR (Institute of Mathematics, Siberian Division, Academy of Sciences, SSSR)

SUBMITTED: 30Mar62

DATE ACQ: 06Sep63

ENCL: O

SUB CODE: MM

NO REF SOV: 007

OTHER: OOB

Card 2/2

1212

L 13711-63 BDS/EWT(1)/FCC(v) AFFTC/ASD IJP(C) ACCESSION NR: AP3003500 8/0020/63/151/001/0011/0014 AUTHORS: Borovkov, A. A.; Rogozin, B. A. TITLE: Asymptotic presentations in some problems for two-dimentional random walks SOURCE: AN SSSR. Doklady*, v. 151, no. 1, 1963, 11-14 TOPIC TAGS: random walk, Kolmogorov-Smirnov statistics ABSTRACT: Some results of previous works by the first-named author are generalized to the equation contained in the enclosure, where F and G are distribution functions. The results are applicable to instances of large deflections for Kolmogorov-Smirnov statistics over all possible ranges of deflection. The paper was presented by Academician A. N. Kolmogorov on 29 January 1963. Orig. art. has: 6 formulas. ASSOCIATION: Institut mutematiki s vy*chislitel'ny*m tsentrom Sibirskogo otdeleniya Akademii nauk SSSR (Institute of Mathematics with Computer Center, Siberian Division, Academy of Sciences SSSR); Novosibirskiy gosudarstvenny*y universitet (Novosibirsk State University) SUBMITTED: 23Jan63 DATE ACQ: 30Jul63 SUB CODE: MM NO KEF SOV: 002 OTHER: 001 Cord 1/2/

ACCESSION NR: AF	30035//		
	υ / ου κυ/ υ/	3/151/002/0247/0250	
AUTHOR: Borovkov	1 As Assessed	52	
TITLE: Several r	ssults on the analysis of large def	flections in boundary-value	
	Doklady*, v. 151, no. 2, 1963, 247		
TOPIC TAGS: bound	lary-value problem, asymptotic form	n1] å	
the equation conta A. N. Kolmogorov o	tic formulas are given for the prolined in the enclosure. The paper on 29 January 1963. Orig. art. has	babilities which are shown in was presented by Academician	
ASSOCIATION: Tret	itut matematiki s vy*chislitel'ny*n	m tsentrom Sibirskogo otdeleni mputer Center, Siberian Depart	78
ment, Academy of S	clences SSSR)	puter center, Siberian Depart.	-
ment, Academy of S SUBMITTED: 21Jan6 SUB CODE: MM	clences SSSR)	ENCL: 01	

8/0199/64/005/002/0253/0289

ACCESSION NR: AP4029377

AUTHOR: Borovkov, A. A.

TITLE: Analysis of large deviations in boundary problems with arbitrary boundaries (1)

SOURCE: Sibirskiy matematicheskiy zhurnal, v. 5, no. 2, 1964, 253-289

TOPIC TAGS: boundary problem, probability theory, probability, statistics, transition probability, random event, random variable

ABSTRACT: In the present article the probability of large deviations in boundary problems, of the type studied by A. N. Kolmogarov are analyzed. Let $S_0 = 0$, $S_1 = \frac{5}{2}1$, ..., So $2=\frac{1}{5}$ $1+\frac{5}{5}$ 2, ... where the sum is a sum of arbitrary random variables $\frac{1}{5}$ $1,\frac{5}{5}$ 2, which satisfy the following two conditions: (1) The distribution function $F(t)=P(\frac{5}{5})$ $1,\frac{5}{5}$ has an absolutely continuous component distinct from zero. (2) F(t) for $t \longrightarrow -\infty$ and 1 - F(t) for $t \longrightarrow \infty$ decrease exponentially. The random variables will also satisfy $M \in \mathbb{R}_{k} = 0$, $D \in \mathbb{R}_{k} = 1$. Let $g_{1}(t) > 0$ and $g_{2}(t) < 0$ be two functions defined on [0, 1], and let $g_{1}(t) = 0$ be the strip contained between g_{1} and g_{2} , and let g_{2} , and let g_{2} and g_{3} and let g_{4} and g_{5} and let g_{6} and g_{6} a theory, it is often important to know facts concerning the existence of points with coordinates $(k/n, s_k/n), k = 0, \cdots, n$, and which fall outside the limits of g (g₁, g₂). The present

Card 1/2

ACCESSION NR: AP4029377

paper deals with such facts. Specifically, asymptotic formulas are developed for the probabilities of various events involving the time of first transit across the boundary and the rate of points moving across the boundary. Orig. art. has: 72 formulas and 3 figures.

ASSOCIATION: none

SUBMITTED: 07Feb63

DATE ACQ: 28Apr64

ENCL: 00

SUB CODE: NA

NO REF SOV: 010

OTHER: 002

Card 2/2

BOROVEOV, A.A.

Analysis of large deviations in boundary was problems with arbitrary boundaries. Fib. mat. zhur. 5 nc.4:750-767 Jl-Ag*64 (MIRA 17:8)

L 25632-65 EWT(d)/T IJP(c) ACCESSION NR: AP4046125

5/0199/64/005/005/0996/1006

15 16 18

AUTHOR: Borovkov, A. A.

TITLE: Some problems of controlled probability processes 16

SOURCE: Sibirskiy matematicheskiy zhurnal, v. 5, no. 5, 1964, 996-1006

TOPIC TAGS: random walk, servo mechanism, random variable, Markov chain, random process, probability theory

ABSTRACT: The communication deals with problems of interest in the theory of servo-mechanisms (see Borovkov, On discrete systems of servo-mechanisms, Teor. ver. i ee primer. 3, #4 (1958). pp413-429), which belongs to the schemes of "processes of processes". In particular, the controlled random walk and processes controlled by random walk are considered. Several theorems are proven connecting the random walk with the positive regular Markov chains. The author is grateful to B. A. Rogosin who called his attention to an error in the manuscript. Orig. art. has: 20 equations

Card 1/2

ACCESSION NR: AP4046125 ASSOCIATION: None SUBMITTED: 32Mar62	ENCL: 00	SIJB CODE: MA,/E	2
NR REF SOV: 003	OTHER: 003		
	7/8/1 1/8/1		
Card 3/2			

BOROVKOV, A.A., inzh.

Theoretical investigation of the operating procedure of an air piston engine. Izv. vys. ucheb. zav.; gor. zhur. 7 no.11:104-110 '64. (MIRA 18:3)

1. Leningradskiy ordena Lenina i ordena Trudovogo Krasnogo Znameni gornyy institut imeni Plekhanova. Rekomendovana kafedroy gornoy mekhaniki.

BOTOVEOV, A.a.; 19 30. 18, B.4. (Errestbins)

Ecordary value problems for none two-dimensional random works.

Teor, vereint, 1 - 0 mmin, 9 no.3:40:430 164.

(MERA 17.19)

BOROVKOV, A.A. (Novosibirsk)

Some limit theorems in queueing theory. Part 1. Teor. veroiat.
i ee prim. 9 no.4:608-625 64. (MIRA 17:12)

BOROVKOV, A.A.; KOROLYUK, V.S. (Kiyev)

Results of asymptotic analysis in problems with boundaries. Teor. veroiat. i ee prim. 10 no.2:255-266 '65.

(MIRA 18:6)

BOROVKOV, A.A.; FOGOTIN, B.A. (Novosibirsk)

Central limit theorem in the multidimensional case. Teor. verciat. i ee prim. 10 no.1:61-69 '65. (MIRA 18:3)

1. Institut matematiki Sibirskogo otdeleniya AN SSSR i Novosibirskiy gosudarstvennyy universitet.

BOROVKOV, A.A. (Novosibirsk)

First passage time for one class of processes with independent increments. Teor. veroiat. i ee prim. 10 no.2:360-364 *65.

(MIRA 18:6)

BOROVKOV, A.A. (Novosibirsk)

Some limit theorems in queuing theory. Part 2. Multichannel systems. Teor. veroiat. i ee prim. 10 no.3:409-437 165. (MIRA 18:9)

1. Institut matematiki Sibirskogo otdeleniya AN SSSR.

BOROVKOV, A.A.; MARKOVA, N.F.; SYCHEVA, N.M.; SHPAKOVSKAYA, L.I.,

[Tables for N.V.Smirnov's criteria of the uniformity of two samples] Tablitsy dlia kriteriev N.V.Smirnova odnorodnosti dvukh vyborok. Novosibirsk, Redaktsionno-izd. otdel Sibirskogo otd-niia AN SSSR, 1964. 139 p. (MIRA 17:6)

CORDYKOV, A.M.

"On the Problem of the Toxic Action of the Two-Thirds Basic Salt of Calcium Hypochlorite," by K. A. Treskunov and A. M. Borovkov, Farmakologiya i Toksikologiya, supplement for 1956, 1957, pp 61-62

"The two-thirds basic salt of calcium hypochlorite (DTS GK) 3Ca(OCl₂). 2Ca(OH)₂ is a white powder containing 56 percent of active chlorine; readily soluble in water. It is used in many branches of industry, and is a good "degassing" agent.

"In 1953, the authors had under their observation a case of acute intoxication by the two-thirds basic salt of calcium hypochlorite. The patient arrived in the therapeutic ward 24 hours after the poisoning occurred. While handling containers with DTS GK, he began to feel a burning sensation in the eyes and throat. Epiphora and occasional coughing spells developed. These catarrhal manifestations soon disappeared. Later, however, symptoms of parenchymatous hepatitis gradually developed: extreme general weakness, headache, nausea, urge to vomit, lack of appetite, yellow urine, yellow jaundice, bradycardia, "hypotoxia," an increase of bilirubin content in the blood to 11 percent with direct Van den Berg reaction, a positive reaction to urobilin, and bile pigments in urine. The patient recovered after the treatment usual in the therapy of parenchymatous hepatitis was applied.

Sum. 1360

BOROVKOV, A.M.

"It was thus established that as a result of intoxication by DTS GK toxic hepatitis developed. The symptoms of the disease became apparent 10 hours after the poisoning occurred. Despite the large content of active chlorine in the poisonous substance, the effect on the organs of respiration and the eyes was slight and of brief duration. The symptoms of hepatitis, however, were clearly exhibited.

"This leads to the assumption that the toxic agent is the entire molecule of DTS GK which enters the organism in the form of dust. It is the opinion of the authors that inhalation and swallowing of the two-thirds basic salt of calcium hypochlorite causes intoxication." (U)

SOV-118-58-9-12/19

AUTHORS:

Borovkov, A.N. and Svetlitskiy, Ye.A., Engineers

TITLE:

Mechanizing the Marking of Blooms (Mekhanizatsiya kleyme-

niya na blyuminge)

PERIODICAL:

Mekhanizatsiya trudoyemkikh i tyazhelykh rabot, 1958,

Nr 9, pp 35-37 (USSR)

ABSTRACT:

Previously at the Zakavkazskiy metallurgicheskiy zavod (Transcaucasian Metallurgical Plant), the marking of blocms and slabs was done by manual labor. The TsNIITMASh has designed and built an automatic marking machine which is operated by one man without bringing the roller conveyer to a stop. The machine is automatically engaged by light impulse operation control. If the light pencil from the glowing metal strikes the photoimpulsator, the electronic amplifier circuit is closed, activating the marking machine. The contactor remains connected as long as the light pencil strikes the photo-relay. The article presents a detailed description of this automatic marking machine. There are 3 schematic drawings.

1. Blooming mills--Equipment 2. Steels--Processing

Card 1/1

SOV/133-58-10-19/31

AUTHORS: Borovkov, A.N. and Sveulitskiy, Ye.A.

The Use of Fixed Mandrels in a Piercing Unit of a Tube-TITLE:

rolling Mill (Primeneniye nesmenyayemoy opravki na proshivnom stane truboprokatnogo agregata 400)

PERIODICAL: Stal', 1958, Nr 10, pp 926 - 927 (USSR)

ABSTRACT: The use of long-lasting mandrels with internal water cooling in the first piercing unit of the 400 mm tube-rolling mill on the above works is described. The consumption of fixed water-cooled mandrels of 225 mm in diameter amounted to 0.07 - 0.12 kg/t as against ordinary mandrels 0.7-1.3 kg/t. application of these mandrels not only facilitated the

work of the mill personnel but also makes possible automation of the mill. Arrangements are being made for the introduction of similar mandrels on the second piercing

unit of the mill. There is I figure.

ASSOCIATION:

(Zakavkazskiy Metallurgical Works) Zakavkazskiy metallurgicheskiy zavod

Card 1/1

S/133/60/000/011/013/023 A054/A029

AUTHORS:

Borovkov, A.N., Tsereteli, P.A., Svetlitskiy, Ye.A.,

Ubiriya, A.Ye., Kovbasa, I.I.

TITLE:

The Use of Non-Detachable Mandrels for the Secondary Piercing

of Tube Billets

PERIODICAL: Stal', 1960, No. 11, pp. 1,022-1023

TEXT: The application of a non-detachable mandrel in the first piercing mill viz, in the 4003M3 (ZMZ) type unit since 1959 has made it possible to automate the piercing process in the first mill, to prolong the useful life of the mandrel and to simplify the servicing of the machine. As the detachable mandrel of the second piercing mill was maintained, this part of the operation could not be automated, however. In order to eliminate this drawback of the process, several suggestions have been made to reconstruct the mandrel of the second piercing mill, first by the UkrNITI, later on by a team of the ZMZ (including the author of the article). The essential feature of the latter design was a thick-walled, non-detachable mandrel with thread for attaching it to the end piece of the roller and with openings in its surface for the outflowing cooling water. However, on account of the rigid attachment of the Card 1/3

S/133/60/000/011/013/023 A054/A029

The Use of Non-Detachable Mandrels for the Secondary Piercing of Tube Billets

mandrel, the frictional forces in the first moment of the bite were not sufficient to make the mandrel revolve with the roller. In order to eliminate this drawback, the team of the ZMZ replaced this mandrel by a revolving type which consisted of a thick-walled mandrel fixed on a special end piece and a thick walled sleeve, continuously cooled from the inside with water under high pressure. During standstills when the mandrel is in its extreme rear position, it is cooled by a special spray. This non-fixed attachment of the mandrel, made possible by a specially shaped end piece, allows the mandrel to revolve freely as necessary in the first moment of the grip and insures uninterrupted internal cooling of the mandrel. During standstills when the mandrel is in its extreme-rear position, it is in this arrangement also cooled by a spray with water under high pressure. In an improved model of this construction (Author's Certificate No. 130473) the mandrel is fixed on an unsplit end piece and there are openings for the outflowing water on the working surface of the mandrel. The useful life of the new type non-detachable mandrels is 4-5 times longer than that of the conventional types, the machine is easier to service, its output is higher and the operation of the second piercing mill could be Card 2/3

S/133/60/000/011/013/023 A054/A029

The Use of Non-Detachable Mandrels for the Secondary Piercing of Tube Billets

automated. There are 4 figures.
ASSOCIATION: Zakavkazskiy metallurgicheskiy zavod (Transcaucasus Metallurgical Plant)

Card 3/3

SHARAD ZENIDZE, S.A., inzh.; BOROVKOV, A.N., inzh.; SVETLITSKIY, Ye.A., inzh.; TSERETELI, F.A., inzh.; MINDLIN, B.I.

Use of fixed mandrels on pipe piercing mills. Biul. TSIICHM no.2:28-31 '61. (Pipe mills)

BOROVIOV, A.N.; KOBIASHVILI, R.I.; MAYSURADZE, T.G.

Automatic hard facing of steel rolls under a layer of ceramic flux. Biul. TSIICHM no.1:40-41 '61. (MIRA 14:9)

SHARADZENIDZE, S.A.; BOROVKOV, A.N.; SVETLITSKIY, Ye.A.

Practice of flame scarfing of pipe blanks. Stal' 23 no.9:324-826 S '63. (MIRA 16:10)

1. Rustavskiy metallurgicheskiy savod.

BOROVKOV, A.S.

Practice of using four-roller bits to drill conglomerates. Razved. i okh. nedr 28 no.2:49-51 F 62. (MIRA 15:3)

1. Uzbekskiy gidrogeologicheskiy trest.
(Boring machinery) (Conglomerate)

PIGULEVSKIY, G.V.; BOROVKOV, A.V.

Isolation of $d-\beta$ —elemene and $1-\beta$ —selinene from the essential oil of Libanotis transcaucasica schischk fruits. Zhur.ob.khim. 32 no.9:3106 S *62. (MIRA 15:9)

1. Botanicheskiy institut AN SSSR. (Elemene) (Selinene)

BOROVKOV, A.V.; HELOVA, N.V.

Ursolic and oleanoic acids from Myrica gale L. Zhur.ob.khim. 32 no.10:3457 0 '62. (MIRA 15:11)

1. Botanicheskiy institut AN SSSR.
(Ursenoic acid) (Oleanenoic acid)

BOROVKOV, A.V.

Fluoroscope for the visual control of chromatographic separation.
Zav.lab. 29 no.8:1012 63. (MIRA 16:9)

1. Botanicheskiy institut AM SSSR imeni V.L.Komarova. (Chromatographic analysis)

PIGULEVSKIY, G.V.; HOROVKOV, A.V.;

Sesquiterpenes of the essential oil of the fruits of Libanotis transcaucasica schischk growing in various regions of the U.S.S.R. Zhur. prikl. khim. 36 no.4:831-836 Ap 163. (MIRA 16:7)

(Sesquiterpenes) (Essences and essential oils)

PIGULEVSKIY, G.V.; BOROVKOV, A.V.

Sesquiterpenes of the essential oil of the fruits of Libenotis transcaucasica Schischk growing in the Stavropol Territory.

Zhur. prikl. khim. 36 no.4:926-928 Ap 163. (MIRA 16:7)

(Stavropol Territory—Essences and essential oils)
(Sesquiterpenes)

PIGULEVSKIY, G.V.; BOROVKOV, A.V.

Sesquiterpenes of the essential oil of the fruits of Libenotis transcaucasica Schischk (Golubozersk form, introduced). Zhur. prikl. khim. 36 no.4:929-930 Ap *63. (MIRA 16:7)

(Essences and essential oils)
(Sesquiterpenes)

BOROVKOV, G. S.

New Device for Determination of Rotating-Body Speeds - Moscow, Vechernyaya Moskva, 13 May 54

The Central Scientific Research Institute of the Silk Industry has developed a new device (stroboscope) for determining the speed of revolving spindles in spinning frames. The device can also be used to determine the speed of a shaft in other machines ranging from 1,500 to 30,000 revolutions per minute. The device was developed by G. S. BOROVKOV. chief engineer of the production laboratory; B. V. Khokhlov, head of the automatic's laboratory; and B. M. Krymov, technician. The first models of the new device have been turned over to silk industry

enterprises for experimental use.

SO: SUM 262, 4 Nov 1954

BOROVKOV, G.S.; GANKIN, I.V.

GOLOSHCHAPOV, N.N. (g.Yelets); KATON'KO, Ye.S.; HOROVKOV, I.I.; SERIGIN,

Useful suggestions. Fis. v shkole 20 no.5:87 S-0 160. (MIRA 13:11)

1. 1-y arednyaya shkola, Kamenets-Podol'sk (for Katon'ko); 2. 25-ya arednyaya shkola, g. Vorkuta (for Borovkov). 3. Breytovskaya srednyaya shkola Yaroslavskoy oblasti (for Seregin).

(Physics-Study and teaching)

BOROVKOV, I.I.

Results of using porecelain cups for burning and roasting of specimens. Lab. delo no. 12:746-747 '64. (MIRA 18:1)

1. Lipetskaya oblastnaya sanitarno-epidemiologicheskaya stantsiya.

ZIYADULLAYEV, S. K.; BOROVKOV, I. I.

Paths of the development of construction and the building materials industry of Usbakistan in the first years of Soviet government (1917-1928). Sbor. nauch. trud. NII po stroi. ASiA no.2:24-35 '61. (MIRA 16:1)

(Uzbekistan—Construction industry) (Uzbekistan—Building materials industry)

BOROVKOV, I.I.

Transformation of the construction industry of Uzbekistan into an independent industrial branch in the years 1933-1940. Sbor.nauch. trud.NII po stroi. ASIA no.3:123-130 '62. (MIRA 17:2)

BOROVKOV, I.I.; KANSSHINA, A.S.

BOROVKOV, I.I.

Construction work and building materials industry of the Uzbek S.S.R. in the first five-year plan (1928-1932). Sbor. nauchatrud. NII po stroi. ASIA no.41319-122 163. (MIRA 1718)

BOROVKOV, I.I.; TER-OSIPYANTS, R.G.

Ways of industrializing construction on the new lands. Sbor.nauch.trud. TashNIIS no.5:18-25 *63. (MLRA 18:1)

Saveshchaniye po elektrokhisii. 4th, Moscov. 1956. Saveshchaniye po elektrokhisii. 4th, Moscov. 1956. Saveshchaniye po elektrokhisii. 4th, Moscov. 1956. Trudy; [sbornik] (Transcrions of the pourh Conference on Electrokhisii. Collection of Articles) Moscov. 120-70 (1958) Sagioring Agencyi Chilection of Articles) Moscov. 120-70 (1958) Sponsoring Agencyi Chilection of Articles) Moscov. 120-70 (1958) Sponsoring Agencyi Chilection of Articles) Moscov. 120-70 (1958) Professory 2. I. Zhdanov (Resp. Ed.) Acadesiciii. O.A. Yesin, Sponsoring A.M. Kahanov, Professory 1. M. Artuskov. Professory 2. M. M.	
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S/076/60/034/012/004/027 B020/B067

AUTHOR:

Borovkov, I. V., Leningrad

TITLE:

Electrochemical Behavior of Germanium

PERIODICAL:

Zhurnal fizicheskoy khimii, 1960, Vol. 34, No. 12,

pp. 2682-2686

TEXT: The authors systematically studied the electrochemical behavior of germanium without external polarization in the case of cathodic and anodic polarization in neutral and alkaline solution (HCl, KCl, KOH) at a concentration of 1 N. Polarization was measured by a glass device which is described in Ref. 12. The device was connected to an electric circuit with an external resistance of 2.2.107 Ω . Thus the amperage of the polarizing current remained stable because the internal resistance of the cell was only low compared to the external one. The author studied n-type germanium with a resistivity of $43\Omega/cm$. The steady potentials and the potentials of the polarized electrodes were measured according to the compensation method by means of a saturated calomel auxiliary electrode. The steady potential and the cathodic polarization were studied in a Card 1/3

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Electrochemical Behavior of Germanium

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hydrogen atmosphere which was obtained by electrolysis and purified on palladized asbestos. The anodic polarization was made in an atmosphere of chemically obtained nitrogen which was purified from oxygen by an alkaline pyrogallol solution. To study the cathodic and anodic polarization, the author used the method of polarization curves. Since the reproducibility of the results of cathodic polarization was insufficient, the number of experiments had to be increased. The curves of cathodic polarization were taken at current densities of 0.5.10⁻⁶ to 0.4.10⁻³ g/cm², whereas, the curves of the anodic polarization were taken at current densities of 0.5.10⁻⁶ to 0.4.10⁻³ g/cm²,

densities of $0.5.10^{-6}$ a/cm² to the critical values for each solution at which the electrode becomes passive. The author found that the steady potentials of germanium change linearly with the concentration of the hydrogen ions according to equation

$$\varphi_{st} = a + b \log \left[H^{\bullet}\right] = a - b pH$$
 (1)

which had been derived by Ya. M. Kolotyrkin (Ref. 13). In this case a = -0.042. Sufficient agreement was found between the experimental data and those obtained from equation (1) (Table 1). When reducing the pH to

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Electrochemical Behavior of Germanium

S/076/60/034/012/004/027 B020/B067

one, the steady potentials of germanium are linearly shifted by a value of 0.042 mV toward the positive. The steady potentials of germanium as depending on the pH (Fig. 2) and the cathodic polarization of germanium in HCl, KCl, and KOH (Fig. 3) are graphically represented. The overvoltages at comparable current densities (1.10-4 a/cm2) in HCl, KCl and KOH solutions are 0.56, 0.73 and 0.54v(Fig. 4). Fig. 5 shows the anodic polarization of germanium in HCl, KCl and KOH as a function of current density. The kinetics of the evolution of hydrogen on germanium exactly agrees with the slow-discharge theory. During anodic polarization germanium tends to passivation which cannot be eliminated by intensive and long-lasting cathodic polarization. The residual passivation of germanium strongly reduces the critical anodic current densities in the following experimental series. The author mentions N. Z. Andreyev, T. P. Vasilevskaya, Ye. G. Kuz'mina who assisted in the studies, as well as papers by B. N. Kabanov and S. A. Rozentsveyg. There are 5 figures, 1 table, and 14 references: 5 Soviet, 2 US, 3 German, and 4

SUBMITTED:

March 2, 1959

Card 3/3

AUTHORS: Borovkov, K. A., Globa, G. F. Orekhov, P. D. 131-23-5-4/16

TITLE: The Work of the Fire-Clay Burning Plant of the Suvorovskoye (re-

Mine Management (Rabota shamotoobzhigatel'noy ustanovki

Suvor**o**vskogo rudoupravleniya)

PERIODICAL: Ogneupory, 1958, Vol. 23, Nr 5, pp. 204-210 (USSR)

ABSTRACT: In order to supply the works for refractory products situated in the vicinity of Moscow with high-grade fire-clay, in the

Suvorovskoye cre-mine management a fire-clay burning plant (Shou) was constructed. Its first part, consisting of a rotary kiln, was started at the end of 1956. The kinds of clay from the deposit Suverovskys, divided into groups, and kinds according to TUO 17-50 are named in the table. The projected capacity of the first part of the plant is 100000 t of fire-clay per year. The production process can be seen in figure 1 and is then described in detail. It is entirely mechanized. In figure 2 automatic scales are shown. The rotary burning kiln of 60 m length and 3 m diameter has an hourly output of 12.5 t of fire-

clay (figure 3). From the burning kiln the fire-clay comes into a drum radiator of 25 m length and 2.5 m diameter, where it

Card 1/3 is cooled down to 60-80°C. At the end of the drum radiator there

The Work of the Fire-Clay Burning Plant of the Suvorovskye 131-23-5-4/16 Ore-Mine Management:

is a grid which sorts out the large pieces of fire-clay, which are carried to the crusher (figure 4). The crushed fire-clay is brought to the magnet separators of the AM-410 type by means of bucket elevators of the TsB-350 type, in which magnet separators metal inclusions coming in by accident are separated. The burning kiln is heated by powdered coal. By means of a feeder of the L-4 type the coal is brought to the crusher of the DVD-2 type. The coal from the Moscow coal-basin is dried, for which process the waste gases from the coal firings are used. At the outlet of the coal rotary drier there is an exhaustor of the D-4 type which sucks the flue gases through 2 cyclons and an electrical precipitator of the UVP-9.9 type for the purpose of eliminating the coal dust. In figures 5 and 6 an aeropulverizer for coal is shown. Furthermore difficulties in the furnace lining are described. The plant is also equipped with a measuring control apparatus, which permits to control continuously the temperatures and atmospheric pressure. Also an automatic regulation of the production processes is introduced. In 1957 in this plant 83.5 thousand tons of fire-clay were produced, the output in three months rising from 18,8 to 22,8 thousand tons. The quality of the fire-clay according to

Card 2/3

The Work of the Fire-Clay Burning Plant of the Suvorevskoye 131-23-5-4/16 Ore-Mine Management

TUO 45-57 is quoted in the table. The cost-price of 1 ten of fire-clay was reduced by 17.3% in the first year. Further reductions are expected. By this plant the works for refract-ory production in Moscow's neighbourhood have obtained a safe fundament for fire-clay supply and at prices which are lower than the cost-price of fire-clay which formerly was burned in annular kilns by the works themsleves. At the expense of the capacity of the annular kilns having become free the output of refactory products can be increased. Railway transport has been released by the transport of the quantity of water which is in the clay. There are 6 figures, 3 tables.

ASSOCIATION:

Suverevskeye rudeupravleniye (Savorovskeye Ore-Mine Management)

AVAILABLE:

Library of Congress

1. Refractory materials - Processes 2. Industrial plants - Work functions

Card 3/3

BOROVKOV, L.; PLOTNIKOV, B.

Use keyless couplings for the propeller shafts of rivercraft, Rech. transp. 24 no. 10:36-37 '65. (MIRA 18:12)

1. Glavnyy konstruktor Gor'kovskogo tsentral'nogo konstruktorskogo byuro Ministerstva rechnogo flota SSSR (for Borovkov).
2. Starshiy inzhener Gor'kovskogo tsentral'nogo konstruktorskogo byuro Ministerstva rechnogo flota SSSR (for Plotnikov).

٦.	16	11	BOROVKOV.
1 .	3A	M.	POINTAUL .

- 2. USSR (600)
- 4. Bearings (Machinery)
- 7. Copper-plating sliding bearings; from the work experience of the Kuybyshev ship yard. Rech. transp. 12 no. 5. 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

BOROVKOV, N.M., inshener

Metallic packing of rod gaskets. Rech. transp. 14 no.6:
28-29 Je 55. (MLRA 8:9)
(Ships--Maintenance and repair)

BOROVKOV, M.M. inch.

Operation of combined steam boilers. Rech.transp. 18 no.7:48-49
J1 159. (MIRA 12:11)

1. Kuybyshevskiy sudoremontnyy zavod.
(Boilers, Marine)

BOROVKOV, M., ENG.

Multiple-Shift Operation

Three eight-hour shifts daily for two-face drifting operations. Mast. ugl. 2, No. 1, 1953.

Monthly List of Russian Accessions, Library of Congress, June 1953. Unclassified.

BOROVKOV, M., inzhener.

Great success of reinforced concrete workers. Mast.ugl. 2 no.4:21-22 Ap (MLRA 6:5)

(Shaft sinking)

BOROVEOV, M., inshener.

Miner-innovator Roman Pavliuk. Mast.ugl 3 no.11:16 N'54.

(Pavliuk, Roman Savel'evich) (MIRA 8:3)

HOROVKOV, M., inzhener

Shaft timbering with reinforced concrete tubing. Mast. ugl. Je 155. (MIRA 8:8)

(Mine timbering)

BOROVKOV, M., inshener.

Penid wantical shaft sinking practices. Mast. ugl. 4 me.11:18

Rapid vertical shaft sinking practices. Mast. ugl. 4 me.11:18-19 N 155. (Denets Basin--Shaft sinking) (MIRA 9:2)

BOROVKOV, M., inshener.

One hundred and forty meters of vertical shaft sinking per month.

Mast.ugl. 5 no.6:11-13 Je '56. (MLRA 9:8)

(Shaft sinking)

BOROVKOY Mensinzhener.

Rapid mining of loader rooms. Mast.ugl. 5 no.10:10-11 0 56. (Coal mines and mining) (MLRA 9:12)

FOROVKOV, M.T., inzhemer.

Efficiency of sinking vertical mine shafts on a cyclical schedule.

Mekh.trud.rab 10 no.7:29-31 J1 *56. (MLRA 9:9)

(Shaft sinking)