

L 04077-67 EWT(1)

ACC NR: AP6025424 (A) SOURCE CODE: UR/0143/66/000/007/0107/0112

AUTHOR: Pospelov, G. Ye. (Doctor of technical sciences, Professor); 31  
Chervinskiy, L. L. (Engineer). 30

ORG: Belorusskiy Polytechnic Institute (Belorusskiy politekhnicheskiy institut) B

TITLE: Investigation of the maximum efficiency of electric transmission lines using a TsVM computer

SOURCE: IVUZ. Energetika, no. 7, 1966, 107-112

TOPIC TAGS: electric power transmission, computer application

ABSTRACT: The maximum efficiency of an electric transmission line is determined from the equation  $\frac{\partial \eta}{\partial p_1} = 0$  "  $\frac{\partial \eta}{\partial q_2} = 0$  (1)

as the highest value of the efficiency with a change in the load over sufficiently wide limits and with a constant voltage at one end of the line. The article gives a block diagram of the algorithm used for computer calculation. A table lists the characteristics of electric transmission lines fabricated from various standard types of wire.

Card 1/2

UDC: 621.315.1.017:518.5

L 04077-67

ACC NR: AP6025424

Based on the calculated results, a figure shows the dependence of the specific powers and the power coefficients corresponding to a maximum efficiency on the length, for different lines (taking the corona effect into account). The calculations refer primarily to airborne lines with a length from 500 to 1500 kilometers. Orig. art. has: 5 formulas, 4 figures and 1 table.

SUB CODE: 10,09/ SUBM DATE: 17Jan66/ ORIG REF: 001

kh

Card 2/2

CHERVINSKIY, Mark Mikhailovich; KAZARNOVSKIY, D.M., doktor tekhn.  
nauk, prof., red.; ZHITNIKOVA, O.S., tekhn. red.

[Ferroelectrics and prospects for their use in computer  
engineering] Segnetoelektriki i perspektivy ikh primene-  
niia v vychislitel'noi tekhnike. Moskva, Gosenergoizdat,  
1962. 134 p. (MIRA 16:4)  
(Electronic computers--Equipment and supplies)  
(Electric engineering--Materials)

BEKIRBAYEV, D.B.; GRODEL', G.S.; GUL'SHIN, P.A.; KLEPIKOVA, M.S.; PETRU-  
KHIN, P.M.; POLYANSKIY, I.P.; RASSOLOV, N.I.; TARASOVA, A.A.;  
FERTEL'MEYSTER, Ya.N.; CHERVINSKIY, M.S.; SHANOVSKAYA, S.S.;  
KLIMANOV, A.D., otv.red.; ZHUKOV, V.V., red.izd-va; PROZOROVSKAYA,  
V.L., tekhn.red.; KONDRAT'YEVA, M.A., tekhn.red.

[Control of coal and rock dust in mines] Bor'ba s ugol'noi i porod-  
noi pyl'iu v shakhtakh. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po  
gornomu delu, 1959. 499 p. (MIRA 13:3)  
(Mine dusts)

SHANOVSKAYA, S.S.; RASSOLOV, N.I.; BEKIRBAYEV, B.D. [deceased];  
PETRUKHIN, P.M.; GRODEL, G.S.; FROLOV, M.A.; CHERVINSKIY,  
M.S.; BOBRITSKIY, V.P.; POLYANSKIY, I.P.; NIKITIN, V.S., otv.  
red.; LUCHKO, V.S., red.izd-va; SHKLYAR, S.Ya., tekhn. red.;  
MAKSIMOVA, V.V., tekhn. red.

[Handbook on controlling dust in coal mines] Spravochnoe po-  
sobie po bor'be s pyl'iu v ugol'nykh shakhtakh. [By S.S.  
Shanovskoi i dr.] Moskva, Gosgortekhnizdat, 1963. 190 p.  
(MIRA 16:6)

(Mine dusts)

Методы контроля в шах.; Бибр/Толст, В.И.

Best control measured in the extraction of coal while people  
are periodically present in the slope. B. Bibra's sil. 0010-1  
100 (MIRA 1910)

1. Makoyevskiy nauchno-issledovatel'skiy institut po bezopasnosti  
ruda v gornoy promyshlennosti.

CHERVINSKIY, I.S.; KHAMITSKIY, V.P.

Increasing the efficiency of sprinkler devices on cutter-leaders.  
Trudy MakhII 15:190-205 '63. (3194 17:11)

KRAYZMER, Leonid Pavlovich. Prinimali uchastiye: CHERVINSKIY, M.M.; OBO-  
RENKO, A.Ye., SHILEYKO, R.I.; ZAYEZDNYI, A.M., retsenzent; UL'YANOV,  
G.K., red.; SOBOLEVA, Ye.M., tekhn. red.

[Discrete information storage devices] Ustroistva khraneniia diskret-  
noi informatsii. Moskva, Gos.energ.izd-vo, 1961. 359 p. (MIRA 14:12)  
(Magnetic memory (Calculating machines))  
(Pulse techniques (Electronics))



1st and 2nd copies

3rd and 4th copies

С. П. ШЕРШИНСКИЙ, И. М. М.

PROCESSES AND PROPERTIES INDEX

19

С. А.

The structure and properties of high-voltage porcelain.  
 N. Mi-Gorvinskii. *Kovom. Shovak* 1941, No. 15, 21-8.—  
 The optimum temp. for firing porcelain insulators is  
 1200-1250°, when the temporary resistance to pressure  
 reaches 250 kg./sq. cm.; this drops to 200 at 1280°.   
 Five hrs. is the optimum duration of firing at the finishing  
 temp. (1200°). The shape and size of the quartz crystals  
 and the degree of melting and crystal. are important,  
 also the amt. of glass and mullite present in the body.  
 Porosity is important in influencing elec. stability. To  
 increase the mech. properties the porcelain should contain  
 large amt. of siliceous material and heavy fluxes  
 (borax), and be fired at higher temps. Increasing the  
 duration of finish firing is of little avail, since the basic  
 changes in the body take place during the first 5-7 hrs. of  
 firing (at 1200°). M. V. Condolde

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CHERVINSKIY, N.M. 19

CA

PROCESSES AND PROPERTIES INDEX

Observations on the character of melting of feldspar.  
 N. M. Chervinskiy. *Kovom, Sbornik* 1941, No. 14, 24-6.  
 The decrease in sp. gr. of porcelain in the interval 1000-1100° is greater than the corresponding decrease in sp. gr. of feldspar. The vitrification process, accompanied by a considerable decrease in sp. gr., ends around 1200° in porcelain and in the interval 1200-1300° the sp. gr. of porcelain decreases a little, while that of feldspar increases considerably to 1300°. In the interval 1300-1400° the sp. gr. of feldspar remains unchanged while that of feldspar decreases greatly.  
 M. V. Condole

СЕРИЯ ВАКУУМНОГО

А.В.С.А. МЕТАЛЛУРГИКА, ЛИТЕРАТУРНАЯ КЛАССИФИКАЦИЯ

СЕРИЯ ВАКУУМНОГО

СЕРИЯ ВАКУУМНОГО

СЕРИЯ ВАКУУМНОГО

19

CHERVINSKIY, N. M.

Discussion of fired porcelain products. N. M. Chervinskiy. *Kovom. Sbornik* 1941, No. 18, 17-19.— Observations dealing with the shrinkage of a porcelain body in dependence on temp. and duration of firing are briefly analyzed. M. V. Conduche

ADD.514 METALLURGICAL LITERATURE CLASSIFICATION

FROM DONOR

15-57-10-14688

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 10,  
p 218 (USSR)

AUTHOR: Chervinskiy, P. L.

TITLE: Ratio of Gravitational to Capillary-Film Water in  
Sands in Relation to Grain Size (Sootnosheniye  
gravitatsionnoy i kapillyarno-plenochnoy vody v peskakh  
v zavisimosti ot krupnosti zeren)

PERIODICAL: Nauchn. tr. po vopr. gorn. dela Mosk. gorn. in-ta, 1956,  
Sb 16, pp 223-226

ABSTRACT: The author gives a method for calculating the specific  
capillary-film water of the weighed quantity of water  
which is retained under natural conditions per unit of  
total surface of the sand grains. Laboratory studies  
have established the relationship between sand-grain  
size and percent of capillary-film and gravity water.  
When the percentage of capillary-film water reaches  
70 percent, the sand should be referred to as quicksand.

Card 1/1

N. S. Gustomesova

CHERVINSKIY, Petr Leont'yevich; SHVARTS, D.M., otvetstvennyy red.; SAVIN, M.M., red, izd-va; KOROVIKOVA, Z.A., tekhn.red.; NADEINSKAYA, A.A., tekhn.red.

[Album of vertical shafts and shaft bottoms in coal mines] Al'bom okoloствol'nykh dvorov i vertikal'nykh stvolov ugol'nykh shakht. Moskva, Ugletekhizdat, 1957. 10 p. and 89 diagr. (MIRA 11:4)  
(Shaft sinking)

CHERVINSKIY, P.L., kand. tekhn. nauk.

Coal mining methods in the Albanian People's Republic. Ugol' 34  
no.1:56-58 Ja '59. (MIRA 12:1)  
(Albania--Coal mines and mining)

ACC NR: *4111 0144* SOURCE CODE: UR/0413/66/000/019/0106/0106

INVENTOR: Chervinskiy, P. P.; Donskoy, A. V.; Kratysh, G. S.

ORG: none

TITLE: Contactless pulse-type velocity transducer. Class 42, No. 186779

SOURCE: Izobretaniya, promyshlennyye obratzys, tovarnyye znaki, no. 19, 1966, 106

TOPIC TAGS: speed regulator, velocity measuring instrument, <sup>*acceleration*</sup> ~~velocity~~ transducer

ABSTRACT: An Author Certificate has been issued for an ultrasonic oscillator with an automatic frequency control and a magnetostrictive transducer which serves as the load of the oscillator. The transducer is connected to a positive feedback circuit and is used as a selective element (see Fig. 1). To improve operational stability at the resonant frequency of the mechanical vibrating system, the passband multicircuit phase filter is connected to the positive feedback circuit of the oscillator. Orig. art. has: 1 figure.

Card 1/2

UDC: 621.373.42

ACC NR: AP6035744

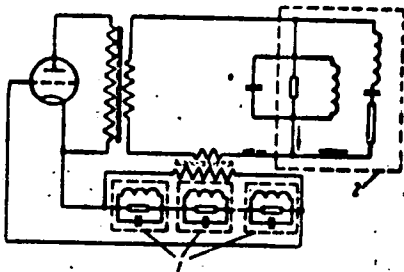


Fig. 1. Ultrasonic oscillator

1 - Passband multicircuit phase filter; 2 - magnetostriuctive transducer.

SUB CODE: 09, 13/ SUBM DATE: 01Jul63/ ATD PRESS: 5112

Card 2/2



PESTRIKOV, V.V.; CHERVINSKIY, R.V.

Organization of the moving operations of a long-distance  
telephone exchange to a new building. Vest. svyazi 25  
no. 11:19-21 N '65 (MIRA 18:12)

1. Glavnyy inzhener Kuybyshevskogo oblastnogo upravleniya svyazi  
(for Pestrikov). 2. Glavnyy inzhener Kuybyshevskoy mezhdugorodnoy  
telefonnoy stantsii (for Chervinskiy).

CHERVINSKIY, V. F.

"Livestock Raising in Regions of Great Communist Construction Projects," Vop.  
ekon., No.5, 1952

CHERVINSKIY, V. F.

Stock and Stockbreeding

Prospects for developing animal husbandry in the areas of great communist construction projects. Sots. zhiv 14 No. 7, 1952.

9. Monthly List of Russian Accessions, Library of Congress, December 195~~3~~<sup>2</sup>, Uncl.

1. CHERVINSKIY, V. F.; PEL'T, N. N.
2. USSR (600)
4. Pastures - Ust' - Urt
7. Utilization of the southern part of Ust' - Urt falling within the zone of the Main Turkmen Canal. Sots.zhiv. 14 no.10, 1952.

9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.

CHERVINSKIY, V.F.

Horse breeding in the Minusinsk Basin. Trudy Mong. kom. no.66:  
111-159 '54. (MLRA 8:6)

1. Sovet po izucheniyu proizvoditel'nykh sil (SOPS) Akademii  
nauk SSSR.

(Minusinsk Basin--Horse breeding)

USSR/Farm Animals - Small Horned Stock

Q

Abs Jour : Ref Zhur - Biol., No 15, 1958, 69330

Author : Chervinskiy, V.F.

Inst : AS USSR

Title : Problems of the Rational Maintenance of Sheep on Pasture

Orig Pub : Tr. Aralo-Kaspiysk. kompleksn. ekspeditsii. AN SSSR,  
1957, vyp. 8, 207-221

Abstract : The results of the experiment carried out in September  
1952- July 1953 in the kolkhoz im. Molotov of Kara-  
Kalpakskaya ASSR and in the sovkhos "Kazandzhik" of  
Turkmeneskaya SSR, regarding rationalization of all-the-  
year-round maintenance of Karakul sheep on pasture under  
conditions prevailing in the deserts of Kara-Kum and  
Kizil-Kum, are given. On each farm, in analogous natu-  
ral conditions, two groups of flocks of ewes,

Card 1/2

CHERVINSKIY, V. F.: Doc Agric Sci (diss) -- "Pasture animals in the semi-desert and desert zones of the USSR (On the example of the Kazakh SSR)". Leningrad, 1958. 43 pp (Min Agric USSR, Leningrad Agric Inst), 175 copies (KL, No 6, 1959, 137)

COUNTRY : USSR  
CATEGORY : Farm Animals. 9  
          : Small Horned Cattle.  
ABS. JOUR. : RZhBiol., No. 6, 1959, No. 25873  
AUTHOR : Chervinskiy, V. F.  
INST. :  
TITLE : The Economical Effectiveness of Winter Partu-  
          : ritions of Sheep in Kazakhstan.  
ORIG. PUB. : Ovtsevodstvo, 1958, No 4, 4-6  
ABSTRACT : If ewes are changed to winter parturitions,  
          : profits of fine-fleeced sheepbreeding are in-  
          : creased. Winter parturitions produce positive  
          : results if ewes are provided with feed and  
          : birth houses. The value of the production  
          : obtained through winter parturitions (computed  
          : per 100 ewes) exceeds the production value of  
          : ewes which give birth in spring by almost 3  
          : times. -- G. V. Bogolyubova

CARD: 1/1



CHERVINSKIY, V.F.

Organizational and economic problems in the pasture system of livestock farming in the semiarid and desert zones of Kazakhstan. Izv.AN SSSR.Ser.biol. no.4:495-509 J1-Ag '59. (MIRA 12:9)

1. Council for Research of Productive Resources of the U.S.S.R., Academy of Sciences of the U.S.S.R., Moscow.  
(KAZAKHSTAN--SHEEP--FEEDING AND FEEDS)  
(PASTURES AND MEADOWS)

CHERVINSKIY, V., kand. sel'skokhozyaystvennykh nauk

Possibilities for developing sheep farming in Kazakhstan. Nauka  
i pered. op v sel'khoz. 9 no.6:32-33 Je '59. (MIRA 12:9)  
(Kazakhstan--Sheep)

BOGOMOLOV, G.V., otv.red.; ANTIPOV-KARATAYEV, I.N., akademik, red.;  
GENKEL', P.A., prof., doktor biol.nauk, red.; CHERVINSKIY,  
V.F., doktor sel'skokhoz.nauk, red.; PAVLOV, A.N., red.izd-va;  
KASHINA, P.S., tekhn.red.

[Problems pertaining to soil salinization and water resources]  
Problema zasoleniia pochv i vodnykh istochnikov. Moskva, 1960.  
173 p. (MIRA 13:10)

1. Akademiya nauk SSSR. Mezhdovedomstvennaya komissiya po izu-  
cheniyu zasushlivykh i poluzasushlivykh zon. 2. Chlen-korrespon-  
dent AN Belorusskoy SSR; Mezhdovedomstvennaya komissiya po izu-  
cheniyu zasushlivykh i poluzasushlivykh zon SSSR Soveta po isuche-  
niyu proizvoditel'nykh sil pri Prezidiume AN SSSR (for Bogomolov).
  3. AN Tadzhikskoy SSR (for Antipov-Karatayev). 4. Institut fiziolo-  
gii rasteniy im. K.A.Timiryazeva AN SSSR (for Genkel').
- (Alkali lands) (Water, Underground) (Irrigation)

CHERVINSKIY, Vasilii Fedorovich; LARIN, I.V., akademik, zsluzhennyy  
deyatel' nauki, otv.red.; KOLPAKOVA, Ye.A., red.izd-va;  
DOROKHINA, I.N., tekhn.red.

[Ways of bringing semi-desert and desert areas of the U.S.S.R.  
under cultivation] Puti sel'skokhoziaistvennogo osvoeniia  
zemel' v polupustynnoi i pustynnoi zonakh SSSR. Moskva, Izd-vo  
Akad.nauk SSSR, 1960. 239 p. (MIRA 13:7)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni  
V.I.Lenina (for Larin).  
(Reclamation of land)

ANTIPOV-KARATAYEV, I.N., akademik, red.; BOGOMOLOV, G.V., akademik, red.; GENKEL', P.A., doktor biol. nauk, red.; PETINOV, N.S., doktor biol. nauk, red.; CHERVINSKIY, V.F., doktor sel'khoz. nauk, red.; SHAFRANSKAYA, M.Z., red. izd-va; YEGOROVA, N.F., tekhn. red.

[Plant-water relations in arid regions of the U.S.S.R; [reports of Soviet scientists] Vodnyi rezhim rastenii v zasushliivkhn raionakh SSR; [doklady sovetkikh uchenykh]. Moskva, izd-vo Akad. nauk SSSR, 1961. 274 p. (MIRA 15:3)

1. Symposium on Plant-Water Relations in Arid and Semi-Arid Conditions, Madrid, 1959. 2. Akademiya nauk Tadzhikskoy SSR (for Antipov-Karatayev). 3. Akademiya Belorusskoy SSR (for Bogomolov). 4. Institut fiziologii rasteniy im. K.A. Timiryazeva Akademii nauk SSSR (for Genkel', Petinov).  
(Plants--Water requirements)  
(Plants, Effect of aridity on)

CHEKINSKIY, V.F.

Increasing the output of livestock products in the semidesert and desert zones of the U.S.S.R. Izv. AN SSSR. Ser. biol. 26 no.5:805-813 S-0 '61. (MIRA 14:9)

1. Council for Studying Productive forces, Academy of Sciences of the U.S.S.R., Moscow.  
(SOVIET CENTRAL ASIA—STOCK AND STOCKBREEDING)

CHERVINSKIY, V.F.

Study of natural resources of deserts should be intensified  
and their reclamation accelerated. Izv. AN SSSR. Ser. biol.  
no. 2:173-180 Mr-Apr'62. (MIRA 16:7)

1. Council for the Study of Productive Forces, Moscow.

CHERVINSKIY, V.F.

Basis for the distribution, specialization, and the comprehensive  
development of the economy of the Moldavian S.S.R. Izv. AN Mold.

SSR no.12:3-10 '63.

(MIRA 18:5)



CHERVINSKIY, Vasiliy Fedorovich, prof.; KURDYUKOV, I.F., otv.  
~~red.; KALENOVA, L.S., red.~~

[In the land of the kangaroo and emu] V strane kenguru i  
emu. Moskva, Nauka, 1964. 165 p. (MIRA 18:2)

1. Deystvitel'nyy chlen Moldavskoy Akademii nauk (for  
Chervinskiy).

CHERVINSKIY, V.F.

Characteristics of agriculture in Australia. Izv. AN SSSR Ser.  
biol. no.2:312-324. Mr=Ap'64 (MIRA 17:3)

YEFREMOV, Ivan Semenovich; VOLKOV, Andrey Fedotovich; ZAGAYNOV,  
Nikolay Alekseyevich; NIKOL'SKIY, Igor' Konstantinovich;  
TIKHOMIROV, Sergey Semonovich; CHERVINSKIY, Vladimir  
Mikhaylovich; TOMLYANOVICH, D.K., red.

[Semiconductor power rectifiers in municipal transport] Po-  
luprovodnikovye silovye preobrazovateli na gorodskom trans-  
porte. Moskva, Izd-vo M-va kommun.khoz.RSFSR, 1963. 82 p.  
(MIRA 17:9)

POLAND/Cultivated Plants - Grains.

M.

Abs Jour : Ref Zhur - Biol., No 4, 1958, 15562

Author : ~~Ye. Chervinskiy~~

Inst : -

Title : The Principle of Fertilizing Corn.  
(Osnova udobreniya kukuruzy).

Orig Pub : Plon, 1957, No 7, 7.

Abstract : No abstract.

Card 1/1

47

BLOKH, G.A.; GROYSMAN, M.P.; CHERVINSKIY, Yu.Ye.; ZHURKO, V.A.; BULKIN, I.N.

Rubber expansion joints. Gaz. prom. 8 no.8:31-34 '63.

(MIRA 17:11)

*СЕРВИСЫ ЗАЩИТЫ ИНТЕРЕСОВ*

**CHERVITS, Yevgeniya Zel'manovna; ARKHANGEL'SKIY, N.A., dotsent, redaktor;  
MARSHOVICH, A.G., redaktor; SUDAK, D.M., tekhnicheskij redaktor**

[Sewn goods commodity science] **Tovarovedenie shveinykh tovarov.**  
Pod red. N.A.Arkhangel'skogo. Moskva, Gos.isd-vo trgovoi lit-ry,  
1955. 167 p. (MLRA 9:1)  
(Textile fabrics) (Clothing and dress)

CHERVITS, Yevgeniya Zel'manovna; BULGAKOV, N.V., prof., red.; SINEL'NIKOVA,  
TS.B., red.; BRODSKIY, M.P., tekhn. red.

[Footwear manufacture and materials] Tovarovedenie obuvi. Pod red.  
N.V.Bulgakova. Moskva, Gos. izd-vo torg. lit-ry, 1961. 170 p.  
(MIRA 14:11)

(Boots and shoes)

TEL'NOV, A.M., inzh.; CHERVOCHKIN, O.A., inzh.; BETIKOV, I.Ye., inzh.

Heat insulating blocks of agloporites. Stroi.mat. 8 no.1:27-28  
Ja '62. (MIRA 15:5)

(Insulating materials)



CHERVON, V., instruktor-komandir korablya (gor.Ul'yanovsk)

Using a radio compass with the method of aural position finding.

Grazhd. av. 12 no.7:13 J1 '55.

(MIRA 11:6)

(Radio direction finders)

CHERVON, V.

84-8-14/36

**AUTHOR:** Chervon, V., Plane Commander, Instructor, School of Advanced Pilotage (VLP)

**TITLE:** Necessity of a Uniform System of Training (Neobkhodima yedinaya sistema obucheniya)

**PERIODICAL:** Grazhdanskaya Avatsiya, 1957, Nr 8, p. 22 (USSR)

**ABSTRACT:** The article is a follow up on an article published in Nr 1, 1957 of the same periodical entitled "Training of Plane Commanders for Flights Under Bad Weather Conditions" by A. Zakharevich. The author rejects the charges that in the School of Advanced Pilotage wrong methods are applied in training the pilots in the OCП and CП-50 instrument Landing Systems. Zakharevich based his contention on the requirements of "Instructions for Conducting Flights in the Il -12 Aircraft". But the School does not limit its methods to those recommended in the Instructions. The School teaches that main attention be paid in landing to piloting instruments. The author also doubts the contention of Zakharevich that it is possible to determine banking by the pressure the pilot feels on his foot. Such a sensation may be unreal under complicated training conditions. The author agrees with Zakharevich that the

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U 19737-65 ESD-2/EWT(d)/T/EWP(1) Pb-4/Pg-4/Pk-4/Po-4/Pq-4 IJP(c)/  
ASD(a)-5/RAEM(d)/RAEM(i)/ESD(dp) GG/BB/MLZ  
ACCESSION NR: AT4047749 S/0000/64/000/000/0145/0153

AUTHOR: Vapnik, V. N.; Chervonenkis, A. Ya.

TOPIC: One class of perceptrons

B+1

SOURCE: AN SSSR. Institut avtomatiki i telemekhaniki. Teoriya i primeneniye avtomaticheskikh sistem (Theory and application of automatic systems). Moscow, Izd-vo Nauka, 1964, 145-153

TOPIC TAGS: perceptron, pattern recognition 16U

ABSTRACT: The suggested class of perceptrons essentially differs from other known classes by its principle of learning. The new principle of learning permits finding the weights  $\lambda_1, \dots, \lambda_n$  that divide patterns whenever they exist. The new class may be used for both recognition and discrimination. The first 3 units in the block diagram (see Enclosure 1) are conventional; in the process of learning, the generalized portrait is calculated by successive approximations. Each

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ACCESSION NR: AT4047749

0

approximation is calculated on the basis of a finite number of objects of a given pattern and of objects of other patterns of the same system. Conditions of existence of an optimum vector are defined. The machine is shown a number of objects of the same pattern. A vector is generated at the neuron-field output which serves as a representation of the object. Such vectors are memorized by the storage unit. Next, in the learning unit, a matrix of scalar products of these vectors is calculated, and the generalized portrait is approximated. The generalized portrait is memorized and serves to recognize the pattern. Further learning involves other patterns. Formulas for calculating the generalized portrait are developed. Orig. art. has: 3 figures and 23 formulas.

ASSOCIATION: none

SUBMITTED: 06Jun64

ENCL: 01

SUB CODE: DP

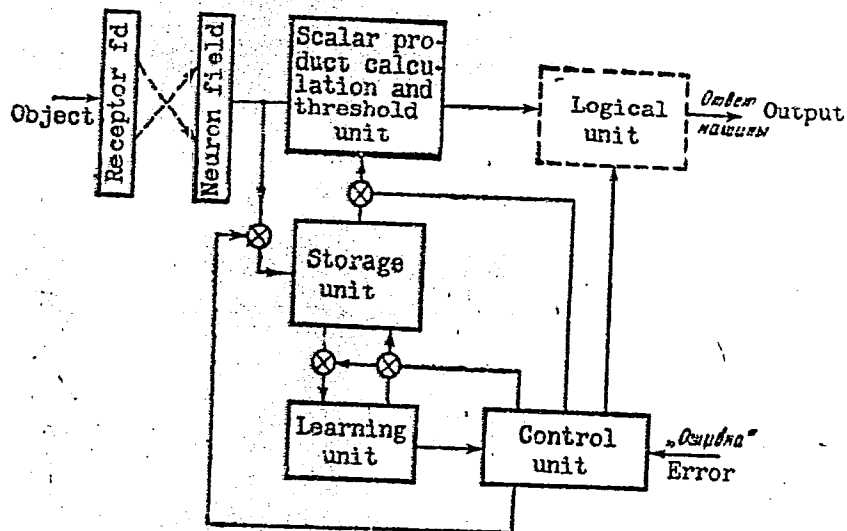
NO REF SOV: 001

OTHER: 000

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ACCESSION NR: AT4047749

ENCLOSURE: 1



Block diagram of a new perceptron

rd 3/3

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86D-2/EWT(u)/T/SMPA... 18-11/AN-1/23

ACCESSION NR: AT4047752

S/0000/64/000/000/0172/0177

AUTHOR: Vapnik, V. N.; Dronfort, L. M.; Chervonenkis, A. Ya.

BTI

TITLE: Some problems of self-organization of pattern-recognizing systems

16C

SOURCE: AN SSSR. Institut avtomatiki i telemekhaniki. Teoriya i primeneniye avtomaticheskikh sistem (Theory and application of automatic systems). Moscow, Izd-vo Nauka, 1964, 172-177

TOPIC TAGS: pattern recognition, pattern recognition model, perceptron

ABSTRACT: A learning system  $T$  is regarded as consisting of these two parts: (a)  $T_1$  characterized by a set of states  $\{S_k\}$  and representing a recognition automaton with a set of inputs  $E$  and (b)  $T_2$  which is a teacher. In terms of a perceptron,  $T_2$  is the entire perceptron including the weight-generating unit while  $T_1$  is the perceptron without the weight unit. A set of vectors  $\lambda_1, \dots, \lambda_n$  is the set of states  $\{S_k\}$ , while a set of weights  $\lambda$  is a signal  $S_k$ . A man is considered

Card 1/2

ACCESSION NR: AP4011321

8/0103/64/025/001/0112/0120

AUTHOR: Vapnik, V. N. (Moscow); Chervonenkis, A. Ya. (Moscow)

TITLE: One class of perceptrons

SOURCE: Avtomatika i telemekhanika, v. 25, no. 1, 1964, 112-120

TOPIC TAGS: perceptron, perceptron learning, perceptron recognition, perceptron discrimination, pattern recognition

ABSTRACT: A new class of perceptrons which differs from that hitherto existing by its learning method is considered. In case of a wrong answer during the perceptron operation, the vector corresponding to an unrecognized pattern is fed to the storage unit and the learning unit and is used to correct the generalized portrait. This function as well as work coordination is performed by a control unit. The generalized portrait is calculated by successive approximations. An optimum approximation is determined and presented as a block diagram. Scalar

Card 1/2

**ACCESSION NR: AP4011321**

products of certain vectors  $k_{\alpha}$  form the input data for calculating the generalized portrait. The coefficients of expansion of the generalized portrait into these vectors serve as the output data. The machine is shown a few objects belonging to a definite pattern; each object produces a vector at the neuron-field output; these vectors are stored. The learning unit computes a matrix of scalar products of these vectors, and an approximation to the generalized portrait is found. Further learning of a given pattern goes with the learning of other patterns. The recognition and discrimination modes of operation are also briefly described. Orig. art. has: 3 figures and 40 formulas.

**ASSOCIATION: none**

**SUBMITTED: 21Feb63**

**DATE ACQ: 14Feb64**

**ENCL: 00**

**SUB CODE: CG, IE**

**NO REF SOV: 002**

**OTHER: 003**

**Card 2/2**



ACCESSION NR: AP4041468

S/0103/64/025/006/0937/0945

AUTHOR: Vapnik, V. N.; Chervonenkis, A. Ya. (Moscow)

TITLE: One class of algorithms for pattern-recognition learning

SOURCE: Avtomatika i telemekhanika, v. 25, no. 6, 1964, 937-945

TOPIC TAGS: pattern recognition, automaton, learning logic, pattern recognition learning

ABSTRACT: Two problems of recognition are formulated: (1) finding the pattern by the learning system and (2) synthesizing the learning system. A general formal scheme describing teacher and learner automata operations is presented. The length of the teaching sequence is evaluated for a particular case. General considerations regarding the problem of recognition in terms of generating and dichotomy-effecting automata are presented. Orig. art. has: 3 figures and 30 formulas.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: DP IE

NO REF SOV: 003

OTHER: 000

Card 1/1

L 48804-65 EWT(a)/T/NEED-2/ENP(1) Pg-4/Pg-4/Pk-4 IJP(c) BB/3G/JXT(BF)

ACCESSION NR: AP5007253

S/0280/65/000/001/0072/0087

AUTHOR: Vapnik, V. N. (Moscow); Lerner, A. Ya. (Moscow);  
Chervonenkis, A. Ya. (Moscow) 4/1

TITLE: Systems for teaching pattern recognition by means of generalized portraits 160

SOURCE: AN SSSR. Izvestiya. Tekhnicheskaya kibernetika, no. 1, 1965. 72-87

TOPIC TAGS: pattern recognition, generalized portrait

ABSTRACT: The recognition problem consists of two parts: (1) Synthesis of the automaton being taught; (2) Simulation of a specific automaton from a given class. The second part is considered in the article, and the results of experiments with (a) recognition of Arabic numerals written in longhand and (b) recognition of water-bearing and petroleum-bearing beds are reported. One-hundred and fifty outlines of each numeral were used for teaching which resulted in 10 generalized

Card 1/2

L 48804-65

ACCESSION NR: AP5007253

portraits (one per each numeral). Each portrait was characterized by 119-130 vectors with nonzero weights. The automaton was able to correctly recognize 95% of the patterns. The geophysical generalized portrait was based on these characteristics: (a) apparent electric resistivity of the bed; (b) self-polarization potential; (c) natural gamma radiation; (d) capture gamma-radiation intensity (under neutron bombardment); (e) drillhole diameter; (f) drilling-fluid resistivity. Materials associated with 270 beds were used for teaching and recognition, with particular attention to thin beds. Orig. art. has: 4 figures, 3 formulas, and 8 tables.

ASSOCIATION: none

SUBMITTED: 16Jul64

ENCL: 00

SUB CODE: DP, IE

NO REF SOV: 006

OTHER: 000

Card 2/2

L 11153-66 EWT(d)/EWP(1) IJP(e) GC/BR

ACC NR: AP6021395

SOURCE CODE: UR/0103/66/000/008/0120/0132

AUTHOR: Vapnik, V. N. (Moscow); Chervonenkis, A. Ya. (Moscow)

ORG: none

TITLE: <sup>160</sup> The teaching of extremal imitation to an automaton. Part II <sup>448</sup>

SOURCE: Avtomatika i telemekhanika, no. 6, 1966, 120-132

TOPIC TAGS: automaton, automatic machine teaching, algorithm, digital computer

ABSTRACT: In this paper, which is a continuation of a previous article (Obucheniye avtomata ekstremal'noy imitatsii. I. Avtomatika i telemekhanika, No. 5, 1966), the problem of algorithms which can be used to teach automatons extremal imitation and which at the same time are suitable to development on digital computers is discussed. A method is considered for finding the maximum value of a function for a given system of interfaces. It is shown that if the number of these interface levels is sufficiently great, the required approximation can be achieved. Also analyzed is a class of functions  $G$  such that at a fixed  $X$  their level lines constitute first- or second-order convex surfaces. For these functions a restoration method is indicated which is based on a plotting of the level surfaces. Finally, an automaton is considered which is capable of being taught extremal imitation when  $g_0(X, Y) < G$  and which em-

Card 1/2

UDC: 621.391.193:518.5

L 41153-66

ACC NR: AP6021395

plays the methods described. An estimate of the teaching sequence for this automaton is made. The problem involves a converter  $B$  which represents input vector  $X$  and output vector  $Y$ . The estimating function  $g_0(X, Y)$  is given. A learning automaton  $\theta$  is to be built which will be capable of working no worse than converter  $\theta$ . It is assumed that the class of functions  $G$ , to which function  $g(X, Y)$  belongs is known a priori. In practice, this class is usually not known and some particular hypothesis is usually adopted with regard to it. It is shown that, instead of this procedure, it is possible to pose a hypothesis regarding a class of representations to which  $B(X)$  belongs and then to attempt to restore this representation. If the class consists of a finite number of converters, then by using a lemma derived and proved it can be demonstrated that any automaton which carries out an algorithm designed to select that specific converter which yields the same replies as  $B$  (full-memory algorithm) to all the input situations which have occurred in a past sequence of observations, is capable of learning extremal imitation, given an observation sequence length determined by a formula derived. No training is necessary. Orig. art. has: 8 formulas.

SUB CODE: 05,09/ SUBM DATE: 24Jun65/ ORIG REF: 004

Card 2/2 hs

L 37105-66 EWT(d)/T/EWP(1) IJP(c) GG/BB/JT/GD

ACC NR: AT6012885

SOURCE CODE: UR/0000/85/000/000/0047/0052

AUTHOR: Vapnik, V. N.; Chervonenkis, A. Ya.

ORG: None

TITLE: Certain principles for the synthesis of learning systems

SOURCE: Sistema chelovek i avtomat (Man-automaton systems). Moscow, Izd-vo Nauka, 1965, 47-52

TOPIC TAGS: bionics, pattern recognition, information theory, learning mechanism, psychology, algorithm

ABSTRACT: A system is studied consisting of a learning apparatus O, the object A, and the teacher Y. The teacher is not necessary for the general case. The learning apparatus O consists of two parts: O<sub>1</sub>, realizing certain behavior which is defined by an interaction algorithm, and O<sub>2</sub>, the second part which changes this behavior on the basis of the analysis of the given behavior. Part O<sub>1</sub> is characterized by the set {S<sub>k</sub>} of possible behavior which it can realize. For animate systems, this will be that set of behavior which can be taught to a man or an animal. Part O<sub>2</sub> is characterized by the law according to which it selects one of the possible behaviors of the set {S<sub>k</sub>} of part one. A formal system may be made more complicated by introducing several stages of teaching such as O<sub>1</sub>, O<sub>2</sub>, O<sub>3</sub>.  
Card 1/3

54  
53  
B+1

L 37105-66

ACC NR: AT6012885

can also be determined.

SUB CODE: 06 / SUBM DATE: 02Aug65

09/

*ne*  
Card 3/3

L 06558-67 EWP(k)/EWP(h)/EWT(d)/EWP(l)/EWP(v)

ACC NR: AP6016139

SOURCE CODE: UR/0103/66/000/005/0125/0135

AUTHOR: Vapnik, V. N. (Moscow); Chervonenkis, A. Ya. (Moscow)

ORG: none

TITLE: Teaching extremal simulation to automata. I

SOURCE: Avtomatika i telemekhanika, no. 5, 1966, 125-135

TOPIC TAGS: learning mechanism, self adaptive control, optimal control, extremal control

ABSTRACT: The problem is posed as follows: it is required to synthesize a converter  $A$ . Its operational quality is defined by criterion  $g_0(X,Y)$ , which depends on a pair of values  $X$  and  $Y$  at the input and output, respectively. Criterion  $g_0(X,Y)$  is unknown, but the class to which it belongs, is known. The operation of device  $A$  must be satisfactory in some sense with respect to this criterion. Theoretically, the problem can be solved by reduction of the function  $g_0(X,Y)$ , and by determination of the optimum transformation  $Y^* = Yg_0(X)$ . Since this is a very cumbersome way, another converter  $B$  is introduced. Nothing is known about  $B$ , except that its operation meets the sufficiency requirements. Thus, if we can develop device  $A$  such that it operates not worse than  $B$ , then such a device would be considered satisfactory. By observing the operation of device  $B$  it can be seen where the values of  $g_0(X,Y)$  are sufficiently high.

UDC: 621.391.193 : 518.5

Card 1/2



L 06558-67

ACC NR: AP6016139

This was done by approximation in two stages: the observation stage, and the training stage. The function  $g_0(X,Y)$  was reduced until such time that the true evaluation  $g_0(X,Y)$  and the approximated evaluation  $g_i(X,Y)$  became sufficiently close, both for observation and training. Thus, the operation quality of  $A$  will either approach or exceed the operation quality of  $B$ . Algorithms for this type of synthesis were developed and the number of required steps was estimated. The algorithm of synthesis was developed in the form of device  $O$ , which is said to be learning from device  $B$ . Orig. art. has: 17 formulas.

SUB CODE: 13,12/

SUBM DATE: 24Jun65/

ORIG REF: 001

Card 2/2 mlc

CHERVONENKIS, O.A. [translator].

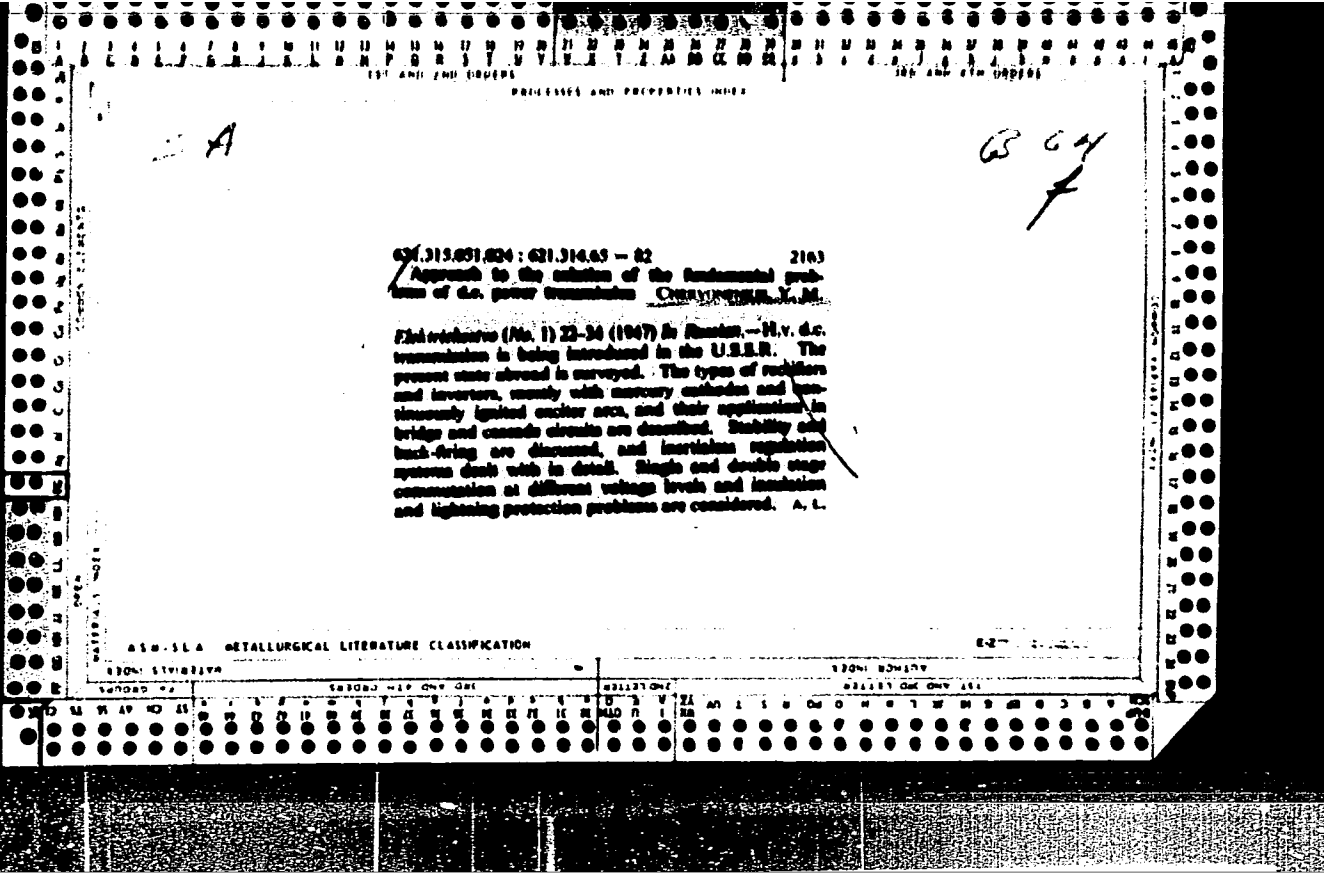
Programming a digital computer to learn. Computing Laboratory of  
Harvard University. Translated from English by O.A.Chervonenkis.  
Usp.mat.nauk 11 no.5:153-160 S-0 '56. (MLRA 10:2)  
(Electronic calculating machines)

LYUSTERNIK, L.A.; CHERVONENKIS, O.A.; YANPOL'SKIY, A.R.; LAPKO,  
A.F., red.; KRYUCHKOVA, V.N., tekhn. red.

[Mathematical analysis; calculation of elementary func-  
tions] Matematicheskiy analiz; vychislenie elementarnykh  
funktsii. Moskva, Fizmatgiz, 1963. 247 p. (MIRA 16:6)  
(Functions)

KRIVOSHEIN, Igor' Aleksandrovich; CHERVONENKIS, Ya.M., red.

[Household electric heating appliances and equipment]  
Bytovye elektronagrevatel'nye pribory i ustanovki. Mo-  
skva, Izd-vo M-va kommun.khoz.RSFSR, 1963. 182 p.  
(MIRA 17:7)



CHERVONENKIS, Ya. M.

"Artificial commutation of an inverter", by Candidate of Technical Sciences  
Ya. M. Chervonenkis, at the Power Engr. Inst. im KRZHIZHANOVSKIY of the Acad.  
Sce. USSR.

SO: Elektrichestvo, No 5, Moscow, May 1947 (U-5533)

CHERONENKIS, Ya. M.

"The problem of transmitting power in direct current", by Candidate of Technical Sciences Ya. M. Chervonenkis, at the Power Engr. Inst. in KRZHIZHANOVSKIY of the Acad. Sce. USSR.

SO: Elektrichestvo, No 5, Moscow, May 1947 (U-5533)

CHERVONENKIS, YA. M.

PA 70T28

USSR/Electricity  
Rectifiers  
Harmonics - Analysis

Apr 1948

"Analytic and Graphic Determination of the Magnitude and Phase of Higher Harmonics of Current and Voltage in Control Rectifiers Having Infinite Cathode Impedance," Ya. M. Chervonenkis, Power Engng Inst Imeni G. M. Krzhizhanovskiy, Acad Sci USSR, 9 pp

"Is Ak Nauk SSSR, Otdel Tekh Nauk" No 4

Determination of the magnitude and phase of higher harmonics of current and voltage is usually accomplished by breakdown into the Fourier series. Describes work showing that this is not the only method

USSR/Electricity (Contd)

70T28  
Apr 1948

and that accurate formulas to determine the sine and cosine of the component harmonics and rectified voltage with the calculation of the angle of ignition and the angle of contact  $\gamma$  may be obtained on the basis of general electromagnetic laws without breakdown into the Fourier series' curves of complex configuration. Submitted Jan 1948.

70T28



CHERVONENKIS, YA. M.

PA 27/49T91

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USSR/Nuclear Physics - Particle Accelerators Nov 48  
Nuclear Physics - Van de Graaff Generators

"Electrostatic Generators," Ya. M. Chervonenkis,  
Cand Tech Sci, 2 pp

"Elektrichestvo" No 11

Van de Graaff electrostatic generators are being used to obtain high voltages required in nuclear physics. Describes various gases used in generator. Mentions several gases used in USSR generators. Refers to work done by Gokhberg, Papaleksi, Ioffe, and Trump. Photograph of a Van de Graaff 2,000-kv generator with cover and X-ray tube removed.

27/49T91

CHERVONENKIS, YA. M.

PA 52/4974

USSR/Academy of Sciences  
Engineering Sciences

Jul 49

"Annotations on Works of Academicians and Corresponding Members of the Academy of Sciences and Other Scientific Collaborators of the Department of Technical Sciences of the Academy in 1949" 2 pp

"Iz Ak Nauk SSSR, Otdel Tekh Nauk" No 7

Includes annotations on Ya. M. Chervonenkis' "Direct Current Power Transmission," and N. V. Shishakov's "Fundamental Principles in the Production of Combustible Gases."

52/4974

CHERVONENKIS, Ya. M.

AID P - 460

Subject : USSR/Electricity  
Card 1/1 Pub. 27 - 23/34  
Author : Chervonenkis, Ya. M., Kand. of Tech. Sci.  
Title : Development of Direct Current Power Transmission in  
Western Europe (Review of Foreign Periodicals)  
Periodical : Elektrichestvo, 7, 88, J1 1954  
Abstract : The review concerns the development of DC overhead and  
cable power transmission in some Western European  
countries (England, France and Sweden). 6 non-Russian  
references (1952-1954).  
Institution : None  
Submitted : No date

*CHERVONENKIS, YA. M.*

AID P - 954

Subject : USSR/Electricity

Card 1/1 Pub. 27 - 23/25

Author : Chervonenkis, Ya. M., Kand. of Tech. Sci.

Title : Mechanical roller rectifier (Review of Foreign Periodicals)

Periodical : Elektrichestvo, 10, 91-92, 0 1954

Abstract : The author presents a summary of an article by E. Marx in ETZ-A, No. 8, 1954. Two diagrams.

Institution : Not given

Submitted : No date

*CHERVONENKIS, YA. M.*

AID P - 1042

Subject : USSR/Electricity

Card 1/1 Pub. 27 - 19/23

Author : Chervonenkis, Ya. M., Kand. of Tech. Sci.

Title : D-C transmission lines. (Review of foreign periodicals)

Periodical : Elektrichestvo, 11, 92-94, N 1954

Abstract : The author summarizes two English and one Austrian periodical as well as data from the 1954 meeting of the International Conference on High Tension Lines concerning recent data on long distance high voltage d-c transmission in various countries of the world. One drawing, 1 table, 3 references (1954).

Institution :. None

Submitted : No date

CHERVONENKIS, Ya. M.

AID P - 1299

Subject : USSR/Electricity  
Card 1/1 Pub. 27 - 23/30  
Author : Chervonenkis, Ya. M., Kand. of Tech. Sci.  
Title : High voltage d-c cables (Review of Foreign Periodicals)  
Periodical : Elektrichestvo, 1, 81-82, Ja 1955  
Abstract : The author summarizes some articles on American, British and Swedish experience in the above field, and presents data concerning the performance of such cable transmission lines. One photo, 1 diagram, 4 references (1954).  
Institution : None  
Submitted : No date

CHERVONENKIS, YA. M.

AID P - 2024

Subject : USSR/Electricity

Card 1/1 Pub. 27 - 28/31

Author : Chervonenkis, Ya. M., Kand. of Tech. Sci.

Title : ~~Polish scientist K. Pollak - author of the one-phase bridge rectifier layout~~  
Polish scientist K. Pollak - author of the one-phase bridge rectifier layout

Periodical : Elektrichestvo, 4, 86, Ap 1955

Abstract : The author summarizes an article from the Polish publication Wiadomosci Elektrotechniczne, No.2, 1954, concerning a patent right obtained by K. Pollak on his invention in 1896. Two diagrams.

Institution: None

Submitted : No date

*CHERVONENKIS, Ya. M.*

AID P - 3038

Subject : USSR/Electricity

Card 1/1 Pub. 27 - 25/33

Author : Chervonenkis, Ya., M., Kand. of Tech. Sci.

Title : ~~Works on the transmission of power with three-phase~~  
380- to 650 - kv current and with high-voltage d-c  
current (Review of foreign periodicals)

Periodical : Elektrichestvo, 7, 144, J1 1955

Abstract : The author summarizes data from three articles in  
Direct Current concerning works in Sweden and England  
and works planned in Canada and the USA. One drawing,  
3 references (1955).

Institution : None

Submitted : No date



C N O R Y O N E N K I S, / - III

AID P - 4108

Subject : USSR/Electricity  
Card 1/1 Pub. 27 - 19/24  
Author : Chervonenkis, Ya. M., Kand. Tech. Sci.  
Title : ~~Investigation of the currents of lightning in Switzerland~~  
Investigation of the currents of lightning in Switzerland (Review of foreign periodicals).  
Periodical : Elektrichestvo, 11, 84-85, N 1955  
Abstract : The author summarizes two articles of K. Berger published in the Bulletin of the Swiss Association of Electrical Engineers on the investigation of lightning currents in Switzerland. One connection diagram, 2 references (1955).  
Institution : None  
Submitted : No date

CHERVONENKIS, Ya.M., kandidat tekhnicheskikh nauk.

220--380-kv systems in Western Europe. Elektrichestvo no.2:  
81-83 F '56. (MLRA 9:5)  
(Europe, Western--Electric lines)

CHERVONENKIS, Ya.M., kandidat tekhnicheskikh nauk.

Automatic integrated control of frequency and interchange power.  
Elektrichestvo no.8:85-86 Ag '56. (MLRA 9:10)  
(Electric power distribution)

CHERVONENKIS, Ya.M.

PHASE I BOOK EXPLOITATION 709

Chervonenkis, Yakov Mikhaylovich, Candidate of Technical Sciences

Peredacha nebol'shikh i srednikh moshchnostey postoyannym tokom na dal'niye rasstoyaniya (Long-distance Transmission of Low and Medium D-C Power) Moscow, Izd-vo Min. Kommunal'nogo khozyaystva RSFSR, 1957. 174 p. 5,200 copies printed.

Ed.: Obukh, A.A., Engineer; Ed. of Publishing House: Shneyerov, S.A.; Tech. Ed.: Konyashina, A.D.; Reviewers: Solomatina, A.F. and Kaperskaya, O. Yu.

PURPOSE: This monograph is addressed to electrical engineers working in the field of electric power transmission and the supply of electric power to cities. The book will also prove useful to students of vuzes specializing in electric power networks and systems.

Long-distance low-and-medium-power D-C Transmission. Wright-Patterson Air Force Base, Ohio, 1960.

11,222 p. illus., diags., tables. (F-TS-9990/v)

Translated from the original Russian: Peredacha Nebol'shikh i Srednikh Moshchnostey Postoyannym Tokom na Dal'niye Rasstoyaniya, Moscow, 1957.

Bibliography: p. 216-222.

Long-distance Transmission of Low and Medium D-C Power      709

COVERAGE: The book discusses the fundamental problems in the electrification of Soviet cities, and the importance of extending the area wherein power transmission is economical. The possibility of connecting towns and agricultural communities with electric power systems and large industrial electric power plants is emphasized. The theory, technical nature and economic bases of high-voltage direct-current power transmission are presented. The author emphasizes the fact that despite the great progress already attained in the electrification of Soviet Russia, there still are vast regions where electric power is produced locally by costly, antiquated methods. The foundations of an interconnected electric power system unifying all European USSR and, later, the Asian part of the Soviet Union were laid by the building of the 400-kv Kuybyshev-Moscow electric power transmission line. It was found that for long-distance low and medium power transmission high-voltage direct-current is most economical. The contributions in this field by Professor K.A. Krug, Corresponding Member, AS USSR, are mentioned. The purpose of the present work is to examine the

Card ~~2/5~~

CHERVOMENKIS, Ya.M., kandidat tekhnicheskikh nauk.

Equipment for grid control and regulation of the Gotland direct-current line. Elektrichestvo no.1:84-87 Ja '57. (MLRA 10:2)  
(Gotland--Electric lines)

~~CHERVONENKIS, Ya.N., kandidat tekhnicheskikh nauk.~~  
CHERVONENKIS, Ya.N., kandidat tekhnicheskikh nauk.

A cable on 200 kv. d.c. across the English Channel. Elektrichestvo  
no.7:90-91 JI '57. (MLRA 10:8)  
(English Channel--Cables, Submarine)

*CHERVONENKIS YF 19*

CHERVONENKIS, Ya.M., kand.tekhn.nauk (Moskva); LYSKOV, Yu.I., inzh.

Outlook for d.c. power transmission in the Soviet Union.  
Elektrichestvo no.1:77-80 Ja '58. (MIRA 11:2)

1.Teploelektroproyekt (for Lyskov).  
(Electric power distribution--Direct current)



AUTHOR: Chervonenkis, Ya. M., Candidate of Technical Sciences 105-98-3-26/52

TITLE: Foreign Projects for the Application of D. C. Power Transmission (Proyekty primeneniya peredachi energii postoyannym tokom za rubezhom)

PERIODICAL: Elektrichestvo, 1958, Nr 3, pp. 89-90 (USSR)

ABSTRACT: A short survey is given here on existing foreign projects, that is to say, on such in Sweden for the isle of Gotland, across the Channel between England and France, between the two isles of New Zealand, as well as on cable laying planned in Japan, Denmark and Italy. There are 1 figure and 6 references.

Card 1/1

CHERVONENKIS, Ya., kand.tekhn.nauk

Electricity enters our lives. Zhil.-kom. khoz. 11 no.10:12-13 0  
'61. (MIRA 15:1)

(Electric apparatus and appliances)

~~BOLOTOV~~, V.V. (Leningrad); RAVDONIK, V.S. (Leningrad); IVANOV, I.I.  
(Leningrad); CHERVONENKIS, Ya.M., kand.tekhn.nauk (Moskva)

Transmission of electric power at long distances. Prospects of  
stepping-up the voltages of overhead power transmission lines.  
Elektrichestvo no.9:77-80 S '63. (MIRA 16:10)

CHERVONENKIS, Ya.M., kand. tekhn. nauk (Moskva); FINGER, L.M., inzh. (Moskva)

Optimal system of voltages for municipal and rural power distribution  
networks. Elektrichestvo no.7:11-15 J1 '65. (MIRA 18:7)

POTURAYEV, V.N.; CHERVONENKO, A.G.

Dynamics of vertical vibration centrifuges. Obog.rnd 3  
no.4:32-37 '58. (MIRA 12:2)  
(Centrifuges) (Coal preparation--Equipment and supplies)

DASHEVSKIY, I.Ya.; CHERVONENKO, A.G.

Structural characteristics of certain types of equipment at the  
Dnepropetrovsk Tire Factory. Kauch. i rez. 20 no. 4:28-33 Ap '61.  
(MIRA 14:5)

1. Nauchno-issledovatel'skiy konstruktorsko-tehnologicheskiy  
institut shinnoy promyshlennosti Dnepropetrovskoye otdeleniye.  
(Dnepropetrovsk—Tires, Rubber)

POTURAYEV, V.N., kand. tekhn. nauk; CHERVONENKO, A.G., inzh.

Dynamic design of a vertical vibrating conveyor. Vop. rud.  
transp. no.5:93-101 '61. (MIRA 16:7)

1. Dnepropetrovskiy gornyy institut (for Poturayev). 2. Zavod  
im. Parkhomenko (for Chervonenko).  
(Conveying machinery)

POTURAYEV, V.N., kand. tekhn. nauk; CHERVONENKO, A.G., inzh.

Design and selection of dynamic layouts of multicomponent  
vibrating conveyors. Vop. rud. transp. no.5:102-123 '61.  
(MIRA 16:7)

1. Dnepropetrovskiy gornyy institut (for Poturayev). 2. Zavod  
im. Parkhomenko (for Chervonenko).  
(Conveying machinery)



GRYAZNOV, V.I.; CHERVONOKAYA, L.V.

Phosphorous minerals in the Nikopci' manganese ores. Lit. i pol.  
iskop. no.4:153-160 J1-Ag '65. (MIRA 18:9)

1. Nauchno-issledovatel'skiy institut geologii Dnepropetrovskogo  
gosudarstvennogo universiteta.

POTURAYEV, V.N., kand.tekhn.nauk; CHERVONENKO, A.G., inzh.; FRANCHUK,  
V.P., inzh.

Vibrating conveyer with a hydraulic damper in the drive. Vop.  
rud. transp. no.6:117-129 '62. (MIRA 15:8)

1. Dnepropetrovskiy gornyy institut.  
(Conveying machinery) (Damping (Mechanics))

POTUPAYEV, V.N., kand. tekhn. nauch. st. doklady; CHELYON, I.S., ing. dokl.

Theory and analysis of dynamic parameters of a vibratory conveyor  
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Subject : USSR/Electricity AID P - 877  
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Author : Chervonenkov, A. A., Eng.  
Title : ~~Classifying and simplifying technical report forms~~  
used by industrial electric laboratories  
Periodical : Energetik, 10, 16-17, 0 1954  
Abstract : The author stresses the importance from the point of view  
of the improvement of the electric economy of an industrial  
enterprise of putting in order the technical records of  
periodical checking and testing of electrical equipment.  
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The authors investigated the reaction of  
methylenealonic ester with dienes in the  
presence of Spiroarbitraz acids. The  
reaction was carried out in benzene  
solution at 60°C. The products were  
isolated and their structures were  
determined by mass spectrometry and  
infrared spectroscopy. The results  
showed that the reaction proceeds  
via a cyclic intermediate. The  
corresponding spirarbitraz acid and  
its structure were also determined.  
The authors conclude that the  
reaction of methylenealonic ester  
with dienes in the presence of  
Spiroarbitraz acids is a new  
method for the synthesis of  
spirarbitraz acids.

PM  
MT