

KIRYUTINA, V. I.

Country : USSR

V

Category: Pharmacology. Toxicology. Medicinal Plants.

Abs Jour: RZhBiol., No 6, 1959, No 27863

Author : Drake, K.V.; Kiryutina, V.I.; Zvereva, A.V.;
Tolokneva, A.Z.

Inst : Khabarovsk Medical Institute

Title : On the Pharmacology of Laminaria.

Orig Pub: Tr. Khabarovskogo med. in-ta, 1957, sb. 15, 78-83

Abstract: Infusions and tinctures of Japanese Laminaria (I) in dilutions of 1:30 - 1 : 200 increase the contractions of isolated intestine of rabbit. I removes the paralyzing action of atropine and adrenalin on the intestines, but does not remove the effect of papaverine. In subcutaneous and intravenous

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introduction, I decreases arterial pressure. I increases the amplitude of cardiac contractions and dilates the vessels of isolated ear of rabbit.

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Card : 2/2

V-45

KIRISTINA, V.I.

Effect of Indian kidney tea on the cardiovascular system. Farm. i
toks. 23 no.2:128-129 Mr-Apr '60. (MIRA 14:3)

1. Kafedra farmakologii (zav. - dotsent K.V.Drake) Khabarovskogo
gosudarstvennogo meditsinskogo instituta. (DIURETICS AND DIURESIS) (CARDIOVASCULAR SYSTEM)

KIRYUTINA, V.I.

Action of Japanese elecampene on vascular permeability. Trudy
Khab.med.inst. no.20:207-211 '60. (MIRA 15:10)

1. Iz kafedry farmakologii (zav. dotsent K.V.Drake) Khabarovskogo
meditsinskogo instituta.
(ELECAMPANE) (BLOOD VESSELS--PERMEABILITY)

KIRYUTINA, V.I.

Action of field horsetail on the cardiovascular system. Trudy
Khab.med.inst. no.20:219-223 '60. (MIRA 15:10)

1. Iz kafedry farmakologii (zav. - dotsent K.V.Drake) Khabarov-
skogo meditsinskogo instituta..
(HORSETAIL) (CARDIOVASCULAR SYSTEM)

KIRZAN, G.

Mobile shelters for the year round keeping of swine. Sel'. stroi.
13 no. 7:6-8 JI '58. (MIRA 11:8)

1. Glavnyy inzhener Omskogo oblastnogo upravleniya po stroitel'stvu
v kolkhosakh.
(Swine houses and equipment)

KIRZAN, G.; SHAPOVALOV, K.; VAZENMALIER, N., starshiy inzhener

Mechanized fattening farm. Sel'. stroi. 16 no.9:9-10 S '61.
(MIRA 14:9)

1. Glavnyy inzhener Omskogo oblastnogo upravleniya po
stroitel'stvu v kolkhozakh (for Kirzan). 2. Glavnyy konstruktor
Sibirskogo nauchno-issledovatel'skogo instituta sel'skogo
khozyaystva (for Shapovalov).
(Kormilovka District—Swine houses and equipment)

KOLOSOV, Vasilii Dmitriyevich; SHEVCHUK, L.V., red.; KIRZAN, G.A.,
spets. red.; MEL'NIKOV, V.I., tekhn. red.

[Experience with and prospects for rural construction] Opyt
i perspektivy stroitel'stva na sele. Omsk, Omskoe knizhnoe
izd-vo, 1959. 58 p. (MIRA 15:8)

1. Nachal'nik mezhkolkhoznoy stroitel'noy kontory Lyubinskogo
rayona, Omskoy oblasti (for Kosov). 2. Glavnyy inzhener Omsko-
go oblastnogo upravleniya po stroitel'stvu v kolkhozakh (for
Kirzan).

(Construction industry) (Farm buildings)

KIRZEWSKA, Lidia; SASSOWA, Janina

A pleural form of leukemia following injury. Pol. tyg. lek. 18
no.44:1652-1653 28 0'63.

1. Z I Kliniki Dziecięcej AM we Wrocławiu; kierownik: prof. dr.
H. Hirszfildowa.

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BURDZINSKA, J.; KIRZEWSKA, L. . . .

Disorders of rhythm and conduction in viral diseases in children.
Kardiol. Pol. 7 no.2:81-85 '64.

1. Z I Kliniki Pediatricznej (Kierownik: prof. dr T. K.
Nowakowski) i z Ośrodka Kardiologicznego PSK Nr 1 we
Wrocławiu (Kierownik: prof. dr Z Kowarzykowska).

KIRZHAKOV, A.

Shaping a shaft head by rolling. Prom.koop. no.1:25 '56.
(MIRA 9:6)

1.Master 6-y mekhanicheskoy arteli.
(Meat grinders)

KIRZHAKOV, G.M.-----

Construction of high passenger platforms on piles. Transp. stroi.
12 no.4:20-21 Ap '62. (MIRA 15:5)

1. Nachal'nik proizvodstvenno-tekhnicheskogo otdeleniya stroitel'nogo
upravleniya No.305 trasta Sevzaptransstroy.
(Railroads--Stations) (Piling (Civil engineering))

KIRZHAKOV, G.M.

Efficient methods of installing contact network poles. Transp.
stroy. 12 no.6:12-14 Je '62. (MIRA 15:6)

1. Nachal'nik proizvodstvenno-tekhnicheskogo otdeleniya
stroitel'nogo uchastka No.305 tresta Sevzaptransstroy.
(Railroads—Electrification)

KIRZHAKOV, G.M., inzh.; OREL, A.A., inzh.

Precast pile foundations for electrification installations. Transp.
stroi. 13 no.6:9-12 Je '63. (MIRA 16:9)
(Foundations) (Concrete piling) (Railroads--Stations)

KIRZHAKOV, G.M., inzh.; SIDOROV, V.I., inzh.

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stroï. 13 no.10:11-13 0 '63. (MIRA 17:8)

KIRZHAYEV, N.

Measuring the operational wear of splined and geared coupling in
(the transmissions of) tanks. No 12.

Tankist, No 12, 1948.

ZELENSKIY, V.D.; KIRZHAYEV, N.I.; SUKALO, M.Kh.; STARKOV, A.N.,
spets. red.; DANILOVA, Z.S., red.

[Concise French-Russian armor dictionary] Kratkii frantsuzsko-
russkii avtobronetankovyi slovar'. Moskva, Voenizdat, 1964.
429 p. (MIRA 17:6)

KOZINENKO, D.Ye., inzh.; KIRZHBAUM, A.Ya., inzh.

Problems of power engineering in petroleum refining plants. Prom.
energ. 19 no.3:16-17 Mr '64. (MIRA 17:4)

KIRZHBAUM, A.Ya., inzh.; KOZINENKO, D.Ye., inzh.

Analysis of breakdowns in the power supply networks of a petroleum refining plant. Prom. energ. 20 no.2:26-28 '65.

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KHEYFETS, S.; ISKRUK, A.; KIRZHNER, A., inzh.; APROD, A., kand.sel'skokhoz.-
nauk

Use of the AZhT-2 device for drying corn on the cob. Muk.-elev.
prom. 23 no.5:21 My '62. (MIRA 15:5)

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2. Glavnyy inzh. Krasnodarskogo mel'nichnogo kombinata (for Iskruk).
3. Krasnodarskaya laboratoriya Vsesoyuznogo nauchno-issledovatel'skogo
instituta zerna i produktov ego pererabotki (for Kirzhner, Aprod).
(Corn (Maize)--Drying)

KIRZHNER, (DOTS.) D.M.,

Dispetcherizatsiya V Kamennougol'noy Promyshlennosti. Gornyy Zhurnal, No 3, 1934, 31-38 .
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KIRZHNER, D. M.

Zvorykin, a. a. and Kirzhner, D. M. "The development of the mining industry of the USSR and the productivity of its labor", in the collection entitled: Voprosy perenogo dela, Moscow, 1948, p. 369-88.

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ZVORYKIN, A.A.; KIRZHNER, D.M.; KUNDIN, M.B.

[Economics, organisation and planning in the U.S.S.R. coal industry]
Ekonomika, organizatsiia i planirovanie ugol'noi promyshlennosti SSSR.
Moskva, Ugletekhnizdat, 1951. 687 p. (MLRA 6:8)
(Mining industry and finance) (Coal mines and mining)

D.M. Kirzhner

Ekonomika ugol'noy promyshlennosti SSSR (by) A.A. Zvorykin, D.M. Kirzhner i
M.B. Kundin. Izd. 2, perer 1 dop. Moskva, Ugletekhizdat, 1954.

427 p. tables. 23 cm.

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[Progressive methods of working longwalls with coal cutter-loaders]
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A.A., otvetstvennyy redaktor; FEYTEL'MAN, N.G., redaktor;
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[Circulating capital in the coal industry] Oborotnye sredstva ugol'-
noy promyshlennosti. Moskva, Ugletekhizdat, 1954. 177 p. [Microfilm]
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ZVORYKIN, A.A.; KIRZHNER, D.M.; KUNDIN, M.B.; DOROKHIN, N.G., otvetstvennyy
redaktor; ~~YETTEL'MAN~~, N.G., redaktor; CHERENKOV, N.V., redaktor;
ANDREYEV, G.G., tekhnicheskiy redaktor

[Economics of the coal industry of the U.S.S.R.] Ekonomika ugol'noi
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Methods of determining the effect of certain industrial processes
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(Labor productivity)

GAVRISH, Valentin Ivanovich; KIRZHNER, D.M., redaktor; FEYTEL'MAN, N.G., redaktor; ALADOVA, Ye.I., tekhnicheskii redaktor; ANDREYEV, G.G. tekhnicheskii redaktor.

[Cost accounting and the growth of capital in the coal industry]
Khozaschet i uvelichenie nakoplenii v ugol'noi promyshlennosti.
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no.12:34-36 D '55. (MIRA 9:2)
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[Materials and technical equipment supply in the coal mining industry]
Material'no-tekhnicheskoe snabzhenie v ugol'noi promyshlennosti.
Moskva, Ugletekhizdat, 1956. 35 p. (MLPA 10:4)
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MINING PITS) MOSKVA, UGLETEKHIZKAT, 1956.

44 P. TABLES.

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 OBMS, I.S., kandidat tekhnicheskikh nauk; SOSNOVIKOV, K.S.; SUKHOT-
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 redaktor; KOSTROV, I.N., redaktor; BARONENKOV, A.V., professor,
 doktor tekhnicheskikh nauk, redaktor; KIRZHNER, D.M., professor,
 doktor tekhnicheskikh nauk, redaktor; SLESHTKO, Ye.F., professor, doktor
 tekhnicheskikh nauk, redaktor; AVERIN, M.D., inzhener, redaktor
 [deceased]; GOR'KOV, A.V., inzhener, redaktor; KOMAREVSKIY, V.T.,
 inzhener, redaktor; ROGOVSKIY, L.V., inzhener, redaktor; SHAPOVALOV,
 T.I., inzhener, redaktor; RUSSO, G.A., kandidat tekhnicheskikh nauk,
 redaktor; FILIMONOV, N.A., inzhener, redaktor; VOLKOV, L.N., inzhener,
 redaktor; GRISHIN, M.M., professor, doktor tekhnicheskikh nauk, redak-
 tor; ZHURIN, V.D., professor, doktor tekhnicheskikh nauk, redaktor;
 LIKHACHEV, V.P., inzhener, redaktor; MEDVEDEV, V.M., kandidat tekhnicheskikh nauk, redaktor; MIKHAYLOV, A.V., kandidat tekhnicheskikh nauk, redaktor; PETROV, G.D., inzhener, redaktor; RAZIN, N.V., redaktor; SOBOLEV, V.P., inzhener, redaktor; PERINGER, B.P., inzhener, redaktor; TSYPLAKOV, V.D., inzhener, redaktor; ISAYEV, N.V., redaktor; TISTROVA, O.N., redaktor; SKVORTSOV, I.M., tekhnicheskii redaktor

[The Volga-Don Canal; technical report on the construction of the Volga-Don Canal, the TSilyanskaya hydro development and irrigation works (1949-1952); in five volumes] Volgo-Don; tekhnicheskii otchet
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Vol.5. [Quarry management] Kar'ernoe khoziaistvo. Red.toma I.N.
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(Rubinskii, IU.) (Lugovkina, M.)

KIRZHNER, D.M., professor.

Profitableness of a coal mine. ("Standards for the profitableness of a mine" M.K. Bagashev, Reviewed by D.M. Kirshner).
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[Economics, production organization and planning in the Soviet coal
industry] Ekonomika, organizatsiia proizvodstva i planirovanie v
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(Coal mines and mining) (MIRA 11:2)

KIRZHNER, D.M.

AUTHORS

Zvorykin, A.A., and Kirzhner, D.M.

119-11-4/7

TITLE

"How to Determine the Economic Effectiveness of Automation".

(kak opredelyat' ekonomicheskuyu effektivnost' avtomatizatsii)

PERIODICAL

Priborostroyeniye, 1957

Nr 11, pp. 13-17 (USSR)

ABSTRACT

The most important index of the economic effectiveness of automation is the degree of the increase of work productivity. This effectiveness in the field of work productivity depends on the degree of wage-intensity in an enterprise being automatized.

For the determination of the economic effectiveness in the index of work productivity we can carry out the following simple calculations: We call the number of workers in the enterprise

a) before the introduction of automation in the enterprise h_1

b) after the introduction of automation h_2 and we obtain in this case-with all other conditions remaining the same-the increase of work productivity to

CARD 1/4

$$\frac{h_1 - h_2}{h_2} \times 100 \%$$

119-11-4/7

"How to Determine the Economic Effectiveness of Automation".

and a decrease of wage intensity to

$$\frac{h_1 - h_2}{h_1} \times 100 \%$$

As second index for the determination of the effectiveness of automation serves the specific use of capital per production unit. When analysing the amount of this expenditure a certain regularity can be observed. As a rule the capital use per production unit decreases there where it is relatively low, or, where, in consequence of automation the scope of production increases essentially. The more complicated the enterprise is in technical respect and the higher the level of automation and the smaller the increase of production is, the more the capital use per production unit of the annual production will drop.

With the level of capital use also the so-called efficiency-agent of automation is connected, which shows us how much smaller the capital use is for the automation to secure an increase of the capacity of an aggregate or of machine, than the expenditures which

CARD 2/4

119-11-4/7

"How to Determine the Economic Effectiveness of Automation".

are necessary in order to reach such an increase of the capacity of an aggregate or a machine without using automatic devices.

There is no reason to regard the coefficient of the efficiency of automation of universal importance. The most important index of the economic efficiency of automation in the USSR is the reduction of the production costs. Usually this effectiveness is characterized by a comparison of the percentage of the reduction of production costs in a non-automized enterprise. This is right, if the economic effectiveness of the same kind of processes and enterprises is considered. The percentage of the reduction of production costs with automation is different if the production costs are calculated with or without the costs of the raw-material. The distribution of the expenditures of the individual departments to the individual products is usually carried out proportionally to the wage of the basic productive workers. In cases of the automation of single processes or departments with a number of industrial branches the same principle was maintained

CARD 3/4

"How to Determine the Economic Effectiveness of Automation". 119-11-4/7

which is used when comparing an automated with a non-automated production. This, however, is obviously incorrect as the real expenditures of departments do not change according to the same relation with automation as do the wages.

When determining the share of the general costs of production per production unit in a non-automated or automated enterprise it is important to regard the demands for the equalization of the quantity of production. Without this the effectiveness of an automated enterprise is artificially increased as in such a case the general costs of production (of the non-automated enterprise) refer to a smaller quantity of production than in an automated enterprise.

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CARD 4/4

KIRZHNER, D.M.

ZVORYKIN, A.A., prof.; KIRZHNER, D.M.

Progressive engineers and technicians of the U.S.S.R. coal industry.

Ugol' 32 no.11:48-53 N '57.

(MIRA 10:12)

(Coal miners)

(Coal research)

KIRZHNER, D.M., prof.

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vys. shkoly: gor. delo no.1:107-114 '58. (MIRA 11:6)

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proizvodstva Moskovskogo gornogo instituta im. I.V. Stalina.
(Coal mining machinery) (Amortization)

ZVORYKIN, A.A., prof.; KIRZHNER, D.M., prof.

Basic problems of mining engineering theory and practice. Izv.
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Methods of determining the economic efficiency of automatization
in the coal industry. Nauch.dokl.vys.shkoly; gor.delo. no.4:
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Stalina.

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(Automatic control)

KIRZHNER, David Mironovich; KUNDIN, Mikhail Borisovich; NIKOL'SKIY,
V.S., otv.red.; GOLUBYATNIKOVA, G.S., red.izd-va; NADEINSKAYA,
A.A., tekhn.red.; LOMILINA, L.N., tekhn.red.

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Organizatsiia zarabotnoi platy v ugol'noi i gornorudnoi promysh-
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SKORUBSKIY, Nikolay Ivanovich; KIRZHNER, D.M., prof., retsenzent; SOSEDOV, O.O., gornyy inzh., retsenzent; GRANOVSKIY, G.M., starshiy konsul'tant, red.; ARKHANGEL'SKAYA, M.S., red.izd-va; KARASEV, A.I., tekhn.red.

[Calculations for mines of enterprises engaged in ferrous metallurgy] Kal'kuliatsiia na rudnikakh chernoi metallurgii. Izd.3., perer. i dop. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1959. 189 p. (MIRA 12:4)

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~~D.M., ptv.red.~~; GOLUBYATNIKOVA, G.S., red.1zd-va; ~~SHALYAR,~~
S.Ya., tekhn.red.

[Economics of the Soviet coal industry] Ekonomika ugol'noi
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SIGOV, Sergey Georgiyevich, kand.ekonom.nauk; KIRZHNER, D.M., otv.red.;
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[Main economic and financial problems in coal mining] Osnovnye
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(Coal mines and mining) (Mining industry and finance)

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1. Predstavlena kafedray ekonomiki organizatsii i planirovaniya
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Financing of and accounting for certain expenditures in coal mines.

Ugol' 34 no.6:36-37 Je '59.

(MIRA 12:8)

(Mining industry and finance) (Coal mines and mining--Accounting)

SURMILO, Grigoriy Vasil'yevich; KIRZHNER, David Mironovich; MENKOVSKIY, Mikhail Abramovich; GOLUBYATNIKOVA, G.S., red.isd-va; GALANOVA, V.V., tekhn.red.

[Chemical industry and mining] Khimicheskaya i gornaya promyshlennost'. Moskva, Gos.nauchno-tekhn.isd-vo lit-ry po gornomu delu, 1960. 76 p. (MIRA 13:7)
(Chemical industries) (Mines and mineral resources)

KIRZHNER, D.M., prof.; SURMILO, G.V., prof.

Cost calculation for products of mineral dressing. Izv. vys.
ucheb. zav.; gor. zhur. no. 11:117-120 '60. (MIRA 13:12)

1. Moskovskiy gornyy institut imeni I.V. Stalina. Rekomendovana
kafedroy ekonomiki i organizatsii proizvodstva Moskovskogo
gornogo instituta.

(Ore dressing--Costs)

SURMILO, G.V.; KIRZHNER, D.M.

Tasks of the coal industry in the light of decisions of the 21st
Congress of the CPSU. Nauch.trudy MGI no.30;5-14 '60.

(Coal mines and mining) (Russia—Economic policy) (MIRA 14:3)

KIRZHNER, D.M.

Method of analyzing coal costs and hidden potentialities for reducing
them. Nauch.trudy MGI no.30:30-42 '60. (MIRA 14:3)
(Coal mines and mining-- Costs)

SURMILO, G.V.; KIRZHNER, D.M.

Kursk Magnetic Anomaly and the metallurgical industry in the central
part of the U. S. S. R. Nauch. trudy MGI no. 34:5-13 '60.

(MIRA 14:4)

(Kursk Magnetic Anomaly--Iron mines and mining)

AIRZHNER, D. M.

Spravochnik Po Ekonomike Ugol'noy Promyshlennosti [by] M.k. Bagashev,
D.M. Kirzhner [1] M. I. Chetyrkin. Moskva, Gosgortekhnizdat, 1961.
418 p. Tables
Bibliography: P. 411-412

BAGASHEV, Mikhail Kapitonovich; KIRZHNER, David Mironovich; CHETVIRKIN, Mikhail Ivanovich. Prinimal uchastiye SURMILO, G.V. ZVYAGIN, P.Z., otv.red.; GOLUBYATNIKOVA, G.S., red.izd-va; OSVAL'D, E.Ya., red. izd-va; GALANOVA, V.V., tekhn.red.

[Reference book on the economics of the coal industry] Spravochnik po ekonomike ugol'noi promyshlennosti. Moskva, Gos.nauchno-tekhn. izd-vo lit-ry po gornomu delu, 1961. 418 p.

(MIRA 14:4)

(Coal mines and mining)

ZVORYKIN, Anatoliy Alekseyevich , prof.; ~~KIRZENER~~, David Mironovich;
KUNDIN, Mikhail Borisovich, inzh.; RACHKOVSKIY, S.Ya., prof., otv.
red.; ASTAKHOV, A.S., kand. ekonom. nauk, otv. red.; GOLUBEYATNIKOVA,
G.S., red. izd-va; PROZOROVSKAYA, V.L., tekhn. red.

[Economics of the mining industry] Ekonomika gornoj promyshlennosti.
Izd.3., perer., dop. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po
gornomu delu, 1961. 439 p. (MIRA 14:9)
(Mineral industries)

Kirzhner, D M

Ekonomika gornoy promyshlennost! [by] A.A. Zvorykin,
D.M. Kirzhner [1] M.P. Kundin. Izd. 3., perer: dop.
Moskva, Gosgortekhnizdat, 1961.
439 p. tables.
Bibliography: p. 432-433.

SURMILO, G.V., prof.; KIRZHNER, D.M., prof.

Improve the economic aspect of projects. Shakht. stroi. 5
no.9:7-8 3 '61. (MIRA 16:7)

1. Moskovskiy gornyy institut.
(Mining industry and finance)

YEFIMOV, A.N., glav. red.; BACHURIN, A.V., red.; VOLODARSKIY, L.M., red.; GERSHEERG, S.R., red.; GINZBURG, S.Z., red.; DUNLUKOV, G.F., red.; KIRZHNER, D.E., red.; KLIMENKO, K.I., red.; KOMAROV, F.V., red.; KOROL'KOV, A.N., red.; KRYLOV, P.N., red.; LIVANSKAYA, F.V., red.; LOKSHIN, E.Yu., red.; OSTROVITYANOV, K.V., red.; POSVYANSKIY, S.S., red.; PRUDENSKIY, G.A., red.; RAZUMOV, N.A., red.; RUMYANTSEV, A.F., red.; TATUR, S.K., red.; SHUEHGAL'TER, L.Ya., red.; BAZAROVA, G.V., starshiy nauchnyy red., kand. ekon. nauk; KISEL'MAN, S.M., starshiy nauchnyy red.; GLAGOLEV, V.S., nauchnyy red.; TUMANOVA, N.L., nauchnyy red.; BLAGODARSKAYA, Ye.V., mlad. red.; SHUSTROVA, V.M., mladshiyy red.; GAYDUKOV, Yu.A., kand. ekon. nauk, red.; ZBARSKIY, M.I., red.; LOZOVY, Ya.D., red.; SERGEYEV, A.V., dots., red.; KHEYFETS, L.M., kand. tekhn. nauk, red.; LYUBOVICH, Yu.O., kand. ekon. nauk, red.; SYSOYEV, P.V., red.; KOSTI, S.D., tekhn. red.

[Economic encyclopedia; industry and construction] Ekonomicheskaia entsiklopediia; promyshlennost' i stroitel'stvo.

Chlony red. kollegii: A.V.Bachurin i dr. Moskva, Gos.nauchn. izd-vo "Sovetskaia entsiklopediia." Vol.1. A - I. 1962. 951 p. (MIRA 15:10)

(Russia--Industries--Dictionaries)
(Construction industry--Dictionaries)

KOZKO, Fedor Isaakovich; PRYAKHIN, Ivan Mikhaylovich; KIRZHNER, D.M.,
retsenzent; CHEREVIK, A.K., retsenzent; BOYKO, A.A., otv. red.;
SUROVA, V.A., red. izd-va; BOLDYREVA, Z.A., tekhn. red.

[The economics, organization and planning of production in coal
mines] Ekonomika, organizatsiia i planirovanie proizvodstva na
ugol'nykh shakhtakh. Moskva, Gosgortekhnizdat, 1962. 397 p.
(MIRA 16:1)

(Coal mines and mining)

RASKIN, I.M.; KIRZHNER, L.S.

Dynamics of protein fractions in the blood serum during the treatment
of Botkin's disease with vitamins B6 and B12. Terap. arkh. 32
no. 7:72-78 J1 '60. (MIRA 14:1)

(BLOOD PROTEINS) (HEPATITIS, INFECTIOUS) (PYRIDOXINE)
(CYANOCOBALAMINE)

BREMENK, S.M.; GORDON, R.I.; KIRZHNER, L.S.; KURASHEVA, D.B.; RASKIN, I.M.
(Moskva)

Use of vitamin B₁₂ in Botkin's disease. Klin.med. 38 no.12:100-
106 D '60. (MIRA 14:2)

1. Iz klinicheskogo otdela Gosudarstvennogo nauchno-issledovatel'-
skogo instituta vitaminologii Ministerstva zdravookhraneniya SSSR
(rukovoditel' - deystvitel'nyy chlen AMN SSSR prof. M.S. Vovsi
[deceased]) i Gorodskoy infektsionnoy klinicheskoy bol'nitsy No.2
(zaveduyushchaya chetvertym korpusom D.B. Kurasheva).
(CYANOCOBALAMINE) (HEPATITIS, INFECTIOUS)

89556

9/044/60/000/008/028/035
C111/C222

№ 3400

AUTHORS: Itskovich, I.A., and Kirshner, M.Ya.

TITLE: Homogeneous generalized functions

PERIODICAL: Referativnyy zhurnal. Matematika, no.8, 1960, 145-146,
abstract no. 9151. Uch. zap. Kishenevsk. un-ta, 1959, 39,
243-245

TEXT: The authors consider the derivatives of the generalized
function x^{-1} for which

$$(x^{-1}, \varphi) = \lim_{\epsilon \rightarrow +0} \left\{ \int_{-\infty}^{-\epsilon} \frac{\varphi(x)}{x} dx + \int_{\epsilon}^{\infty} \frac{\varphi(x)}{x} dx \right\},$$

where $\varphi(x)$ is a finite infinitely often differentiable function. They
give formulas for the calculation of the convolutions of the derivatives
(in the sense of the generalized functions) of these functions with the
finite infinitely often differentiable function as well as composition
formulas.

[Abstracter's note: The above text is a full translation of the original
Soviet abstract.]

Card 1/1

AUTHORS: Tolmachev, V. N., Kirzhner, O. M. SOV/75-13-4-9/29

TITLE: On the Possibility of Applying Murexide as a Reagent for the Photometric Determination of Zinc (O vozmozhnosti primeneniya mureksida v kachestve reaktiva dlya fotometricheskogo opredeleniya tsinka)

PERIODICAL: Zhurnal analiticheskoy khimii, 1958, Vol.13, Nr 4, pp. 430-433 (USSR)

ABSTRACT: Relatively few good reactions are known for the photometric determination of zinc (Ref 1) and even these are not free from shortcomings (Ref 2). Murexide, the ammonium salt of purpuric acid, can be used for the determination of zinc by photometric methods. Murexide reacts with the ions of many metals (Refs 5, 6, 12, 13). As reaction product with zinc ions the stable complex

$$\text{Zn}(\text{H}_3\text{R})_2^{2-}$$

develops, the stability constant of which is $K=4,8 \cdot 10^{-10}$ (Ref 14). The absorption band of the complex ($\lambda_{\text{max}}=455\text{m}\mu$) is far removed from the absorption band of pure murexide

Card 1/4

80V/75-13-4-9/29

On the Possibility of Applying Murexide as a Reagent for the Photometric Determination of Zinc

($\lambda_{\max}=520m\mu$). The molar absorption coefficient of the complex $E_{\max}$ is 40 000. Murexide was synthesized as uric acid (Ref 15) by the authors. It was then carefully cleaned. The photometric measurements were carried out on a spectrodensograph (Ref 16) and on a photometer of the type Φ M. In measurements of the optical densities by light filters Nr 5 ($\lambda_{\max}=525m\mu$) the relative deviations did not exceed 0,6-0,7%, when using light filters Nr 7 ($\lambda_{\max}=455m\mu$) the deviations were higher. The solutions of murexide are unstable, especially in the acid and alkaline range. If the pH-value is 6-8, the solutions are usable for a few hours. In buffered solution the stability increases a little. The optical densities of the solutions when containing zinc ions remain constant for 30-45 minutes. The reaction reaches the highest sensitivity at a pH of 10-11, but the stability of the colored solution in this range is very low. Therefore the authors worked at a pH-value of 7,5, which was adjusted by a Veronal buffer (Ref 17). Under these conditions the solutions follow the law of Beer up to concentrations of

Card 2/4

SOV/75-13-4-9/29

On the Possibility of Applying Murexide as a Reagent for the Photometric Determination of Zinc

zinc of $1,5 \cdot 10^{-4}$ mol/l, if the concentration of murexide in the solution is $7,5 \cdot 10^{-4}$ mol/l. Therefore the determination according to this method is applicable for concentration ratios of $\alpha_{\text{Mu}} : \alpha_{\text{Zn}} \geq 5$. The determination of zinc is already possible at concentrations of $2 \cdot 10^{-5}$ mol/l. The sensitivity of the reaction increases with a rising pH-value. The relative errors in the determinations of zinc in medium concentrations do not exceed $\pm 3\%$. However, as murexide has a poor selectivity, the applicability of this method for determining zinc in natural objects is limited. The possibility of application was investigated at the example of some aluminum alloys which contained copper and chromium apart from aluminum and zinc. It became evident that the described method can be applied at high pH-values (>10). There are 3 figures, 2 tables, and 18 references, 11 of which are Soviet.

ASSOCIATION: Khar'kovskiy gosudarstvennyy universitet im. A.M. Gor'kogo
Card 3/4 (Khar'kov State University imeni A.M. Gor'kiy)

GUREVICH, A.B., kand.khim.nauk; KIRZHNER, O.M., inzh.

Phase analysis of titanium steels. Trudy Ukr.nauch.-issl.inst.
met. no.5:249-256 '59. (MIRA 13:1)
(Titanium steel--Metallography)
(Phase rule and equilibrium)

S/032/63/029/003/005/020
B117/B186

AUTHORS: Gurevich, A. B., Kirzhner, O. M., Sandler, N. I., and
Murav'yev, V. N.

TITLE: Determination of cerium-containing inclusions in alloy steels

PERIODICAL: Zavodskaya laboratoriya, v. 29, no. 3, 1963, 283-286

TEXT: Cerium compounds formed by introducing small amounts of cerium in alloy steels were investigated. Steels containing 0.05 - 0.12% Ce, 0.60% Mn, 0.30 - 0.40% C, and 0.3% S were used. The nonmetallic phase was separated by dissolving the steel specimens in the usual iron sulfate electrolyte with complex formers. The anode slime was first treated with 30% copper ammonium chloride solution containing 1% FeSO_4 and 5% ammonium citrate, and then with iodine solution in potassium iodide; subsequently, the slime was studied petrographically and by x-ray analysis. Cerium compounds were found in the form of sulfides (CeS , Ce_2S_3) in the steels investigated; no oxysulfide compounds were detected. Since cerium sulfides, soluble in hydrochloric acid, are insoluble in iodine solution, they can

Card 1/2

Determination of cerium-containing ...

S/032/63/029/003/005/020
B117/B186

be easily separated from iron and manganese sulfides. The amount of cerium inclusions in the steel was independent of the total cerium content. This was due to the high degree of liquefaction of cerium sulfides and their irregular distribution over the cross section of specimens. The electrolyte residues contained much more cerium than the sulfide phase. Cerium was irregularly distributed in the sulfide and the carbide phase. In the carbide phase, it was contained in the cementite lattice which was confirmed by x-ray analysis. There are 5 figures and 3 tables.

ASSOCIATION: Ukrainskiy nauchno-issledovatel'skiy institut metallov
(Ukrainian Scientific Research Institute of Metals)

Card 2/2

GUREVICH, A.B.; KIRZHNER, O.M.; SANDLER, N.I.; MURAV'YEV, V.N.

Determination of cerium-containing inclusions in alloying
steels. Zav.lab. 29 no.3:283-286 '63. (MIRA 16:2)

1. Ukrainskiy nauchno-issledovatel'skiy institut metallov.
(Cerium—Analysis)
(Steel alloys)

SANDLER, N.I.; GUREVICH, A.B.; NAVROTSKIY, I.V.; YUNASH, V.M.; TURUBINER,
L.M.; KIRZHNER, O.M.

Phase distribution of vanadium, tungsten, and niobium in
low-alloy steels. Sbor. trad. UNIIIM no.9:349-356 '64
(MIRA 18:1)

KIRZHNER, S.M., inzh.-mayor

Device for tracking the course of an airplane. Vest. Vozd.
Fl. no.10:83 O '61. (MIRA 15:2)
(Navigation(Aeronautics)--Equipment and supplies)

L 29110-66 - EMT(d) IJP(a)

ACC NR: AP6019393

SOURCE CODE: UR/0042/65/020/006/0102/0104

AUTHOR: Kirzhner, V. M.

ORG: none

TITLE: Criteria for the expressibility of a matrix in the form of the product of a lower triangular and an upper triangular matrix

SOURCE: Uspekhi matematicheskikh nauk, v. 20, no. 6, 1965, 102-104

TOPIC TAGS: mathematic matrix, mathematics

ABSTRACT: Let A be a matrix of the n -th order. Matrix A is said to be T -factorable if there exists a lower triangular matrix B and an upper triangular matrix C such that $A = BC$. It is known that if in matrix A all diagonal minors are nonzero, it is T -factorable. The purpose of the article is to establish necessary and sufficient conditions for T -factorability. The author outlines the proof of the following theorem: For T -factorability of matrix A it is necessary and sufficient that there exist the inequalities $r(A^{(m)}) + r(A^{(n-m)}) - r(A^{(n)}) \leq m$, ($1 \leq m \leq n$), where $r(\cdot)$ is the rank of the matrix. The author thanks Yu. V. Gandel' for formulating the problem. Orig. art. has: 5 formulas. /JPRS/

SUB CODE: 12 / SUBM DATE: 18Feb65 / ORIG REF: 001

Card 1/1 CC

KIRZHNER, Yu., inzhener (Kiyev)

Improved apparatus for An-2 agricultural airplane, Grazhd.av. 13
no.2:12 F '56. (MLRA 9:5)

(Aeronautics in agriculture)(Airplanes--apparatus and supplies)

KIRZNER, Yu., inzhener.

L1-2V airplane. Grazhd.av.13 no.11:23 N '56.
(Airplanes)

(MLBA 10:2)

L 24808-66 EWT(d)/EWT(l)/EWT(m)/EWP(h) R0

ACC NR: AP6013420

SOURCE CODE: UR/0084/65/000/012/0011/0014 36
3AUTHOR: Dubovenko, A. (Engineer); Fedorov, V. (Engineer); Turchannikov, I. (Engineer);
Kirzhner, Yu. (Engineer); Obukhov, N. (Engineer); Antonova, G. (Engineer);
Antipenko, I. (Engineer)

ORG: none

TITLE: An-2M agricultural aircraft 4SOURCE: Grazhdanskaya aviatsiya, no. 12, 1965, 11-14 6

TOPIC TAGS: agricultural machinery, aircraft/ An-2M aircraft

ABSTRACT: A comprehensive composite article dealing with the extensive modifications made on the An-2 aircraft to develop a new agricultural aircraft, the An-2M, leads off with a detailed discussion of internal power-takeoff capabilities (mechanical and electrical) and agricultural-chemical capacities and dispersion characteristics. Mention is made of increased wing area, new front-landing-gear placement, new instrumentation, improved electrical equipment, a new propeller, and many other changes. Original (An-2) and replacement (An-2M) equipment is discussed in detail, along with cockpit conditioning equipment and characteristics. Chemical spraying and dispersion equipment is described in detail. Orig. art. has: 6 figures and 1 table. [LB] 2

SUB CODE: 2201/ SUBM DATE: none

DUBOWENKO, A., inzh.; FEDOROV, V., inzh.; TURCHANNIKOV, I., inzh.;
KIRZHNER, Yu., inzh.; OBUKHOV, N., inzh.; ANTONOVA, G., inzh.;
ANTIPENKO, I., inzh.

An-2M; Grazhd. av. 22 no.12:11-14 D '65.

(MIRA 18:12)

1(2)

SOV/84-59-9-23/66

AUTHORS: Kirzhner, Yu., Member of Design Office, Engineer

TITLE: Aircraft An-14 "Pchelka" (Small Bee)

PERIODICAL: Grazhdanskaya aviatsiya, 1959, Nr 9, p 16 (USSR)

ABSTRACT: The author, a member of the design office directed by O.K. Antonov, has written this article in reply to a request of a group of pilot-instructors represented by A.T. Yengashov, who wanted to learn the mechanical and flying characteristics of the An-14 "Pchelka". An experimental model of this aircraft started in 1958. Since then, 2 experimental models underwent various testing and improvements, having made about 300 flights each. The aircraft's flying characteristics resemble those of a helicopter. It takes off after a 50-60 m long run, climbs steeply at 55-60 km/h. A reliable stability while climbing is secured by automatic wing slats. With the flaps 50° out, the aircraft has a steep low-speed glide. The application of brakes and the resistance created ✓

Card 1/2

SOV/84-59-9-23/66

Aircraft An-14 "Pchelka" (Small Bee)

by auto-rotation of propellers shorten the landing run to 40-50 m. The 700x250mm wheels enable the aircraft to take off from and land on sand and freshly-ploughed land. The An-14 "Pchelka" is proposed to be used in avio-chemical work on local air routes and for aerial photography. The dusting and spraying equipment (for a maximum performance of 35 liters per second) is to a great extent made of caprone, "steklotekstolit" and the vinyl-type plastics. 25 HP are taken off the right engine for the units of the agricultural equipment. The An-14 "Pchelka" can be recharged with loose chemicals by simply exchanging the empty container for a full one, which is then hauled up into the fuselage by an electric telfer. The sprayer has a two-stage centrifugal pump, that can be switched in for parallel or sequential operation. The same pump charges the plane with the new supply of liquid chemical. The pilot cabin is separated from the rear section of the fuselage by a hermetic partition. There is 1 photograph.

Card 2/2

KIRZHNER, Z.L.

Attachemnt for the winding of knitted-off yarn on flat-pearl
knitting machines. Leh. proc. no. 8845 A₁-Je'64 (MIRA 17:7)

KIRZHNER, Z.L.

Characteristics of the setting of flat rib-knitting machines
for work with bulked loop yarn. Leh. prom. no.4:57-58 O-D '65.
(MIRA 19:1)

S. A.
Sect. A

Physics
Field Theory

530.143
4911. On the gradient invariance of the theory of the vacuum. D. A. Kuznetsov. Letter in Zh. Eksp. Teor. Fiz., 31, 949-51 (1951) in Russian.
In contradiction with the conclusions of Abrikosov and Khalatnikov (Abstr. 8509 (1951)) it is shown that the occurrence of divergencies of higher order than logarithmic in calculations of vacuum polarization by a magnetic field does not depend on the special form of the potential. The result, that divergences present for a magnetic field are absent for an electric field, is not correct.
W. J. SWIATYCKI

KIRZHITS, D. A.

USSR/Nuclear Physics - Nucleon-meson interaction

FD-731

Card 1/1 : Pub. 146-1/22

Author : Kirzhnits, D. A.

Title : ~~Problem of meson-nucleon interactions~~
Problem of meson-nucleon interactions

Periodical : Zhur. eksp. i teor. fiz., 27, 6-18, Jul 1954

Abstract : The nucleon-meson interaction is generalized and the existence of an additional interaction, due to the nucleon impulse, is found. This is equivalent to the existence of a nucleon mass depending on field and leads to a barrier repelling even in a strong attracting field. Non-linearities are noted in the Hamiltonian. Indebted to Academician I. Ye. Tamm, Prof. V. L. Ginzburg and V. P. Silin. 14 references including 6 foreign.

Institution : --

Submitted : March 15, 1954

KIRZHNITS, D.A.

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On the mass of the photon in quantum electrodynamics. Zhur.eksp.1
teor.fiz. 30 no.4:796-797 Ap '56. (MLRA 9:8)

1. Fizicheski institut imeni P.N. Lebedeva Akademii nauk SSSR.
(Quantum theory) (Photons)

Kirzhnits, D.A.

Category : USSR/Theoretical Physics - Quantum Field Theory

B-6

Abs Jour : Ref Zhur - Fizika, No 1, 1957, No 204

Author : Kirzhnits, D.A.

Inst : Phys. Inst. USSR Acad. of Sciences

Title : On the Renormalization of Mass in the Tamm-Dancoff Method

Orig Pub : Zh.experim. i teor. fiziki; 1956, 30, No 5, 971-973

Abstract : It is shown that if all the amplitudes related to the counter-term δH , are taken into account in the problem with the single nucleon in the lowest approximation of the Tamm-Dancoff method, the mass normalization can be carried out as usual, but the character of the singularities changes from logarithmic to linear. Another method is proposed for the renormalization of the mass, where along with the fundamental problem one also solves in the same approximation the problem concerning a single nucleon and a single meson. In the latter problem one finds an expression for the bare masses in terms of the renormalized ones, and this expression is then substituted in the corresponding terms of the fundamental problem. However, certain propagation functions in the basic problem still retain as before the bare masses, so that to replace them by renormalized masses it is necessary to take into account the "accumulation" to a higher degree of approximation.

Card : 1/1

KIRZHNITS, D. A. Cand Phys-Math Sci -- (diss) "On statistical ^{the} ~~many~~ ^{theory of} particle theory" ~~theory~~
Mos, 1957. 7 pp 22 cm. (Acad Sci USSR. Physics Inst im P. N. Lebedev), 125 copies
(KL, 14-47, 85)

-4-

KIRZHNIITS, D.A.

15. Quantum Corrections for Thomas-Fermi Equation Computed

"Quantum Corrections to the Thomas-Fermi Equation," by D. A. Kirzhnits, Physics Institute imeni P. N. Lebedev, Academy of Sciences USSR, Zhurnal Eksperimental'noy i Teoreticheskoy Fiziki, Vol 32, No 1, Jan ~~1986~~¹⁹⁸⁷, pp 115-123

This work obtains the Thomas-Fermi and the Thomas-Fermi-Dirac equations in the zero approximation with respect to $\hbar$ from the operator form of the Hartree-Fock equations. Quantum corrections of the second and fourth order with respect to $\hbar$ are found for the Thomas-Fermi equation by the operator method.

The second order correction is compared with the Weizsacker correction. The latter is found to be nine times larger than the value predicted by the quantum theory.

The equations are used to calculate the total energy of the atom.

(U)

AUTHOR	KIRZHNITS, D.A.,	PA - 2967
TITLE	On the Theory of the Field with Cut-Off Factor. (K teorii polya s obrezayushchim faktorom - Russian)	
PERIODICAL	Zhurnal Eksperim. i Teoret. Fiziki, 1957, Vol 32, Nr 3, pp 534-541, (U.S.S.R.) Received 6/1957	
		Reviewed 7/1957
ABSTRACT	The present paper investigates the most important part of problem of the uniqueness of the quantum theory of the field, namely also the finite (renormalized) expressions depend on the cut-off factor. Reference is made to previous works dealing with this subject. Here a more general class of cut-off factors than those dealt with by previous works is investigated, and for these cut-off factors the problem of ambiguity is very important. The present investigation is carried out within the framework of the asymptotic theory developed by LANDAU, ABRIKOSOV and KHALATNIKOV, Dokl. Akad. Nauk, Vol 95, pp 497, 773, 1177 (1954), with the sole difference that the table-shaped cut-off factor is replaced by a general cut-off factor. The cut-off factor is introduced into the theory by "smearing out" of interaction. On this occasion, a factor F must be assigned to each node of the FEYNMAN diagram, which depends on the corresponding momenta. The cut-off factor is introduced in form of a product. Next, the author studies the asymptotic behavior at $p \rightarrow \infty$ for electrodynamics. The resulting equation for D depends on a considerable extent on the cut-off factor. Next, the author passes on to the mesodynamics with weak pseudoscalar coupling and investigates the following problems. Annihilation of a pole in the case of an or-	

Card 1/2

PA - 2967

On the Teory of the Field with Cut-Off Factor.

dinary annihilation of a pole, and the shift of the critical momentum on the occasion with the renormalization of the charge. In conclusion the nature and applicability of this theory are discussed.

ASSOCIATION Physical Institute "P.N. LEBEDEV" of the Academy of Science of the USSR.
PRESENTED BY
SUBMITTED 6.2.1956.
AVAILABLE Library of Congress.
Card 2/2

AUTHOR: Kirzhnits, D. A.

56 34-4-57/60

TITLE: On a Functional Relation in Quantum-Mechanics (Ob odnom funktsional'nom sootnoshenii v kvantovoy mekhanike)

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1958, Vol. 34, Nr 4, pp. 1037 - 1039 (USSR)

ABSTRACT: The author investigates a system of particles without an interaction which in steady state are in a certain external field of the potential $V(\vec{r})$. Generally the density of the number of division is a very complicated function of V and of all its derivations:

$\xi(\vec{r}) = \xi(V, \nabla_1 V, \nabla_1 \nabla_k V, \dots)$, with all arguments on the right side referring to the point $\vec{r}$. The following is shown: Independent of the character of the filling up of the levels of the field V , that means independent of statistics and temperature $\xi(\vec{r})$ satisfies the relation $D\xi/DV = \partial\xi/\partial V$ with the symbol D/DV denoting the Euler's derivation

Card 1/3

$$D\xi/DV = \sum_{n=0}^{\infty} (-1)^n \nabla_{i_1} \dots \nabla_{i_n} \left\{ \partial\xi/\partial (\nabla_{i_1} \dots \nabla_{i_n} V) \right\}$$

On a Functional Relation in Quantum-Mechanics

56 34-4-57/60

$\partial/\partial V$ denotes the derivation according to the first argument in (1). The author proves the case of a degenerated system which satisfies the Fermi statistics. Further as example an expression for ξ was written down which results from the Thomas-Fermi model with quantum-like corrections up to the 4th order with respect to $\hbar$ in the degenerated non-relativistic case. The results obtained are very suitable for the derivation and control of the correctness of the approximate expressions for the density. The problem of the possibility of generalization of that relation for the case that the interaction V depends on the momentum or the Dirac's matrices as well as the problem of the existence of relations of similar type for other quantities (for example Green's function of the particle in an external field) demands a special investigation. There are 5 references, 4 of which are Soviet.

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Card 2/3

On a Functional Relation in Quantum-Mechanics

56-34-4-57/60

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1. Quantum mechanics—Theory

Card 3/3

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AUTHOR: Kirzhnits, D.A.

TITLE: On Correlation Effects in Two-Electron Atoms (O korrelyatsionnykh
effektakh v dvukhelektronnykh atomakh)

PERIODICAL: Optika i Spektroskopiya, 1958, Vol 5, Nr 5, pp 485-489 (USSR)

ABSTRACT: The true interactions between particles differ from those given by the self-consistent field method. The difference between the exact value of energy and that given by the self-consistent field approximation is calculated in the present paper for the case of a two-electron atom or ion in its ground state. This difference is known as the correlation correction. The correlation correction is calculated using the method of Møller and Plesset (Ref 1), who regarded it as a perturbation. A simple formulation of the method of Ref 1 is given in the present paper. This formulation is sufficient to solve the problem of a two-electron atom, which has a very small number of interacting particles and for which the exchange and spin effects can be neglected. A multi-electron system, with spin neglected, was dealt with by the present author in Ref 2; a general case is discussed in Ref 3. The correlation correction for two electron atoms was found to be independent of the nuclear charge Z . The precision obtainable using the perturbation

Card 1/2