

PEKARSKIY, S.I.

"Organization and planning of chemical enterprises" by
M.M. Fedorovich. Reviewed by S.I. Pekarskii. Khim.
prom. no. 6:526-527 S '60. (MIRA 13:11.)
(Chemical industries)
(Fedorovich, M.M.)

PEKARSKIY, S. Ya.

KONSTANTINOV, Ye.A.; LEVANDOVSKIY, Ye.A.; MISHAKOV, Ye.S.; PEKARSKIY, S. Ya.;
KOVALEV, N.I., otvetstvennyy redaktor; SIBIRSKAYA, T.V., redaktor;
MOZHYZHEVLOVA, G.B., redaktor IVANYAN, K.N., tekhnicheskiy redaktor

[Measuring instruments; reference catalog] Izmeritel'nye pribory;
katalog spravochnik. Moskva, Biuro tekhn. informatsii, 1956. 157 p.
(MLRA 10:3)

1. Russia (1923- U.S.S.R.) Ministerstvo radiotekhnicheskoy
promyshlennosti.
(Measuring instruments)

ASTAF'YEV, A.V.; KONSTANTINOV, Ye.A.; MISHAKOV, Ye.S.; PEKARSKIY,
S.Ya.; DOROFEYEV, V.A., tekhn. red.

[Reference catalog on measuring instruments] Katalog-
spravochnik izmeritel'nykh priborov. Moskva, Biuro tekhn.
informatsii, 1952. 163 p. (MIRA 16:8)

1. Russia (1923- U.S.S.R.) Ministerstvo promyshlennosti
sredstv svyazi. (Electric measurements)
(Telecommunication--Equipment and supplies)

PEKARKSKIY, S. YA.

Call Nr: TK 6553 .R87

AUTHOR: Konstantinov, Ye.A., Levandovskiy, Ye.A.,
Mishakov, Ye.S., Pekarkskiy, S.Ya., Compilers

TITLE: Measuring Instruments. Catalog Handbook
(Izmeritel'nyye pribory. Katalog spravochnik)

PUB. DATA: Byuro tekhnicheskoy informatsii, Ministerstvo
radiotekhnicheskoy promyshlennosti SSSR, Moscow,
1956, 160 pp. and appendix, 6,000 copies.

ORIG. AGENCY: Ministry of the Radio Engineering Industry, USSR

EDITOR: Managing Editor: Litvinov, S.V.; Editor-in-Chief:
Kovalev, N.I.; Editors: Seslavskaya, T.V.,
Mozhzevelova, G.B.; Tech. Ed.: Ivanyan, K. N.
Reviewing Editor: Markova, K.S.

PURPOSE: This catalog is intended for use by all organizations
affiliated with the Ministry of the Radio Engineering
Industry of the USSR.

COVERAGE: The catalog describes a variety of radio engineering
measuring instruments available for purchase from the
Ministry of the Radio Engineering Industry of the USSR.

Card 1/2

SHITSMAN, S.O., inzh.; PEKARSKIY, V.G., inzh.

Unit for heating buildings in the winter. Transp stroi. L2
no.3:53-54 Mr '62. (MIRA 16:11)

PEKARSKIY, V.V. (Tomsk, ul. Shevchenko, d.39b, kv.67)

Total bronchospasm while under anesthesia and its treatment by means of direct lung massage by V.P. Smol'nikov's method. Klin. khir. no.6:63-66 J. '62. (MIRA 16:5)

1. Khirurgicheskoye otdeleniye oblastnogo protivotuberkuleznogo dispansera g. Tomsk.
(BRONCHI-DISEASES) (ANESTHESIA--COMPLICATIONS AND SEQUELAE)
(MASSAGE)

PEKARSKIY, V. V.

USSR (600)

Geography - Textbooks

Lessons of A. N. Ivanov on the United States of America. Geog. v. shkole, No. 4, 1952

Monthly List of Russian Accessions, Library of Congress, October 1952. UNCLASSIFIED.

ЭЛЕКТРИЧЕСКАЯ

БРИД, Г.М.; ПЕКАРСКИЙ, Я.Л.

Electric-contact bridging of cutting tools. *Trudy SNTC KVEU*
no.3:52-66 '57. (MLPA 10.9)
(Cutting tools) (Metal cutting, Electric)

PEKARI, Karoly

Effect of calcium ammonium nitrate (petiso) applied at various intervals on the yield of spring barley. Agrochem talajtan 12 no.1:11-20 Mr '63.

1. Eszakkélet-Magyarországi Mezőgazdasági Kísérleti Intézet,
Kompolt.

KRAMER, Mihaly; PEKARY, Karoly

The effect of fertilizers on the nutrient uptake and quality of grains on chernozem-brown soils. Agrokem talajtan 11 no.2:191-202 Je '62.

1. Magyar Tudományos Akademia Talajtani es Agrokemiai Kutato Intezete Tragyazasi Osztalya, Budapest, es Eszakkelet-Magyarorszag Mezogazdasagi Kiserleti Intezet, Kompolt.

PEKATOROS, L.G.

Soil improvement characteristics of the floodland of the
Ingul River within the Black Sea Lowland. Pochvovedenie no.9:
85-94 Ag [i. e. S] '63. (MIRA 16:10)

(Ingul Valley--Soils)

PEKATOROS, L. G.

Methods of increasing the fertility of irrigated solonchik-like soils of the salt bank of the lower Dnieper. L. G. Pekatoros (Pochovdenis, 1953, No. 7, 45-53).--Irrigation with water containing HCO_3 damaged soil structure. Deep ploughing (35 cm) combined with the use of gypsum and green manure decreased the solonchik-like properties of the soil and increased the yields of cotton. Soils & Fertil. (A. G. P.)

PEKATOROS, L. C.

Chemical Abstracts
May 25, 1954
Soils and Fertilizers

②
/ Methods of increasing the productivity of weakly solonch-
stic soils on the left bank of the lower Dnipro River under con-
ditions of irrigation. L. G. Pekatoros (Ukrain. Sci. Re-
search Sta. Rice Sowing, Voznesensk). *Pochvedenie*
1953, No. 7, 83-9.—Waters contg. Na bicarbonate when
used to irrigate weakly solonchic chernozem soils are re-
sponsible for the development of the solonchik-solod process.
Small doses of gypsum, 5-10 centers/ha., green manuring,
and deep plowing, 35 cm., proved to be very effective in
improving the soil and increasing (18.8%) yield of cc ton.

J. S. Ioffe

PEKATOROS, L.G.

Process of salt accumulation in soils of the Southern
Bug Lowland. Pochvovedenie no.8:29-36 Ag '60.
(MIRA 13:8)

1. Ukrainskiy Giprovdokhoz, Odesskiy filial.
(Bug Valley Minerals in soil)

PEKATOBOS, L.S.

Soil formation in floodlands of rivers in the western part
of the Black Sea Lowland. Pochvovedenie no. 7:37-44 31-165
(MIRA 19:1)

1. Ukrainskiy gosudarstvennyy institut po proyektirovaniyu vede-
khozyaystvennykh sooruzheniy i sel'skikh elektrostantsiy,
Odesskiy filial. Submitted July 12, 1963.

PEKATOROS, L.G.

Salt accumulation in soils of the Dniester River floodlands and principles of their zoning. Pochvovedenie no. 5:13-20 My '61.
(MIRA 14:5)

1. Ukgiprovodkhoz, Odesskiy filial
(Dniester Valley---Saline and alkali soils)

PEKATOROS, L.G.

Secondary soil salinization in the Ukrainian floodlands and delta of the Danube. Pochvovedenie no.2:26-36 F '62. (MIRA 15:3)

1. Odesskiy filial Ukrainskogo gosudarstvennogo instituta po proyektirovaniyu vodnogo khozyaystva.
(Danube Valley--Soils)

PEKEL', A I

KOVALEV, S.A.; LYAMIN, E.A.; PEKEL', A.I.

Study of migration relations of cities of the U.S.S.R.
Vop.geog. no.38:196-210 '56.

(MLRA 9:9)

(Cities and towns--Growth) (Migration, Internal)

BEREZOVSKIY, V. M.; KOLTUNOVA, V. I.; PEKEL^o, N. D.; SHLIMOVICH, Ye. A.

Nucleotides, coenzymes, phosphoric esters. Part 2: Synthesis
of cocarboxylase. Zhur. ob. khim. 33 no.1:49-55, '63.
(MIRA 16:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.

(Cocarboxylase)

PEKELIS, A. S.

14
Peikelis, A. S. Lattice isomorphism of groups possessing
a finite rational series. *Uspehi Mat. Nauk (N.S.)* 11
(1956), no. 4 (70), 143-147. (Russian)
Let ϕ be a lattice isomorphism between the torsion-free
groups G and G^* . The mapping ϕ preserves each of the
following properties: (1) a subgroup of G is an isolated
abelian normal subgroup, (2) a subgroup of G is an isolated
normal subgroup and has an ascending isolated series
which is invariant in G and has abelian factors, (3) the
group G itself possesses a finite rational series. Indeed,
in the latter two cases, the images in G^* of the series in G
are series with the respective properties. R. A. Good.

Wells

Smart

PEKELIS, A.S.

Groups with semisubgroups of isomorphic structure. Izv.vys.ucheb.
zav.; mat. no.1:189-194 '57. (MIRA 12:10)

1. Ural'skiy gosudarstvennyy universitet im. A.M.Gor'kogo.
(Groups, Theory of)

PEKELIS, A. S.: Master Phys-Math Sci (diss) -- "The structural isomorphisms
of certain classes of infinite groups". Sverdlovsk, 1958. 7 pp (Min Higher
Educ USSR, Ural State U in A. M. Gor'kiy, Chair of Algebra and Geometry), 150
copies (KL, No 10, 1959, 122)

AUTHOR: Pekelis, A.S. (Sverdlovsk) SOV/42-13-3-26/41
TITLE: The Structure of Subgroups of Some Classes of Groups (Struktura podgrupp nekotorykh klassov grupp)
PERIODICAL: Uspekhi matematicheskikh nauk, 1958, Vol 13, Nr 3, p 238 (USSR)
ABSTRACT: The element of a structure is called characteristic if it is mapped onto itself for all automorphisms of the structure. The subgroup H of the group G is called S-characteristic if H is a characteristic element in the structure of the subgroups S(G) of the group G.
Theorem: If in the radical group G (see Plotkin [Ref 1]) of finite special rank there are no periodic normal divisors, then in G there exists a nilpotent S-characteristic subgroup H which is different from e.
Then a purely structural characterization of the following classes of groups is given: 1) solvable groups with minimal condition, 2) nilpotent groups with maximal condition and with at least two independent elements of infinite order, 3) solvable groups with maximal condition, 4) solvable A_3 - and A_4 -groups (see Mal'tsev [Ref 2]), 5) radical groups of finite special rank.

Card 1/2

The Structure of Subgroups of Some Classes of Groups SOV/42-13-3-26/41

There are 3 references, 2 of which are Soviet and 1 German.

Card 2/2

PEKELIS, A.S.

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AUTHOR: Pekelis, A.S.

16

TITLE: Structural Isomorphisms of Solvable Groups

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 133, No. 2, pp. 281-283

TEXT: Let φ be the structural isomorphism of the groups G and G^φ . If H is a subgroup of G , then let H^φ denote its image in G^φ for the structural isomorphism φ . Let the solvable A_1 -groups be defined according to A.I. Mal'tsev (Ref. 3).

Theorem 1: If G is a non-periodical solvable A_1 -group, then G^φ is a non-periodical solvable A_1 -group too.

Theorem 2: If G is a radical group and if the series $e = H_0 \subset H_1 \subset \dots \subset H_\alpha \subset H_{\alpha+1} \subset \dots \subset H_\gamma = G$ is its invariant series with locally nilpotent factors free of torsion, then G^φ is a radical group too, where

$e = H_0^\varphi \subset H_1^\varphi \subset \dots \subset H_\alpha^\varphi \subset H_{\alpha+1}^\varphi \subset \dots \subset H_\gamma^\varphi = G^\varphi$ is the series invariant in G^φ with locally nilpotent factors free of torsion.

Card 1/2

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PEKELIS, A.S.

Structural isomorphisms of mixed nilpotent groups. Sib. mat.
zhur. 6 no.6:1315-1321 N-D '65.

(MIRA 18:12)

KONTROVICH, P.G.; PEKILIS, A.S.; STAROSTIN, A.I.

Problems concerning structure in the theory of groups. Mat.
zap. Ural. mat. ob-va UrGn 3 no.1:3-50 '61.

(MIRA 19:1)

PEKELIS, A.S.

Structural isomorphisms of locally nilpotent nonperiodic
groups. Mat. zap. Ural. mat. ob-va UrGu 3 no.1:72-76 '61.
(MIRA 19:1)

PEKELIS, A.S.

Structural isomorphisms of locally nilpotent torsionless groups.
Usp. mat. nauk 18 no.3:187-190 My-Je '63. (MIRA 16:10)

PEKELIS, A.S.; SADOVSKIY, L.Ye.

Projections of a metabelian torsion-free group. Dokl. AN SSSR 151
no.1:42-44 J1 '63. (MIRA 16:9)

1. Predstavleno akademikom A.I.Mal'tsevym.
(Abelian groups)

L 14065-66 EWT(1)/FCC (3W

ACC NR: ATD024837

UR/3118/65/000/006/0057/0064

AUTHOR: Pekelis, E.M.

22
BT 1

ORG: World meteorological center (Mirovoy meteorologicheskij tsentr)

TITLE: Numerical method of solution for the problem of nonlinear flow over irregularities of the Earth's surface

SOURCE: Mirovoy meteorologicheskij tsentr. Trudy, no. 6, 1965. Voprosy gidrodinamicheskogo kratkosrochnogo prognoza pogody i mezometeorologii (Problems in hydrodynamic short range weather forecasting and mesometeorology), 57-64

TOPIC TAGS: weather forecasting, wind, numeric solution, atmospheric model

ABSTRACT: The author develops numerical approaches to the solution of a non-linear problem of wind flow over irregularities of the Earth's surface. His stated aim (p.59) is to construct a two-dimensional flow model which could be realistically generalized to include the three-dimensional case. His approach begins with the two-dimensional case (x and z only), Fig.1, defined by a system of thermohydrodynamic equations formulated before in detail by H. Kochin, I. Kibel and I. Rose, Teoreticheskaya gidromekhanika, Ch.1, Fizmatgiz, Moscow, 1963, pp. 561-563. The system is outlined in (1), with u and w components of wind velocity along the x and z axes, and

$$\rho = \rho_0 - \tilde{\gamma}(z); \quad \tilde{\gamma}(z) = - \frac{d\tilde{T}(z)}{dz}; \quad \Phi = RT_0 \frac{p(x, z)}{\bar{p}(z)}; \quad \theta = T(x, z) - \tilde{T}(z);$$

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UDC: None

L 14065-66

ACC NR: AT5024837

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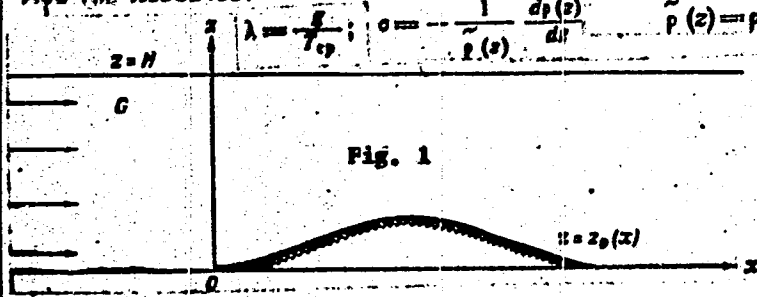


Fig. 1

$$\lambda = -\frac{z}{r}; \quad \sigma = -\frac{1}{r(x)} \frac{dr(z)}{dz}; \quad \tilde{p}(z) = p(x, z) - p'(x, z);$$

$$\begin{aligned} u \frac{\partial u}{\partial x} + w \frac{\partial u}{\partial z} &= -\frac{\partial \phi}{\partial x} \\ u \frac{\partial w}{\partial x} + w \frac{\partial w}{\partial z} &= -\frac{\partial \phi}{\partial z} + \lambda \phi \quad (1) \\ u \frac{\partial \theta}{\partial x} + w \frac{\partial \theta}{\partial z} &= -\mu(z) w \\ \frac{\partial u}{\partial x} + \frac{\partial w}{\partial z} &= \sigma(z) w \end{aligned}$$

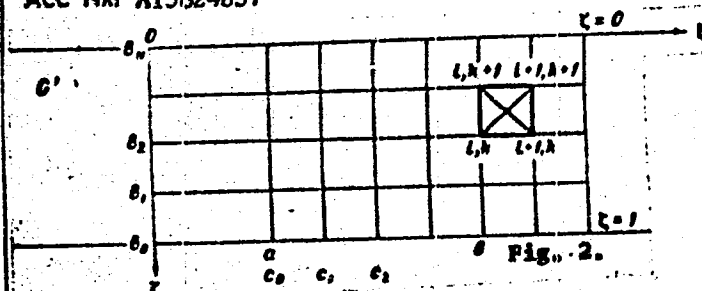
After setting up the boundary conditions and introducing incompressibility, the author finds this approach too complicated for a realistic generalization to three variables. His approach is then modified. Following Kh. Zeytunyan's work (Trudy V.M.Ts., vyp.1, 1963), he introduces new independent variables, effecting the transformation (2)

$$\xi = x \quad \zeta = \frac{H-z}{H-z_0(x)} \quad (2)$$

which maps Fig. 1 into Fig.2 (Region G into G₁, etc.). With new non-dimensional variables and new functions, his final two-dimensional system appears as (3), with boundary conditions (4). After defining certain limitations of the flow fields, he proceeds to the development of the finite differences schematics for the numerical equivalent of the equation system (3). These considerations occupy considerable space and are followed by a step-by-step description of the solution algorithm. A difficulty is noticed posed by the multiplicity of possible solutions, and a criterion devised to select the proper values among the available solutions of the finite differences scheme. However,

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L 14065-56
ACC NR: AT51324837



$$\bar{\xi} = \frac{\xi}{H}; \quad \bar{z}_0(\bar{\xi}) = \frac{z_0(\xi; H)}{H}; \quad \bar{\Phi} = \frac{\Phi}{U_m^2}$$

$$\bar{\eta}(\bar{\xi}) = 1 - \bar{z}_0(\bar{\xi}); \quad \bar{\delta} = \frac{\lambda H}{U_m^2} \delta$$

$$\bar{z}_0 = \frac{z_0}{H}; \quad \frac{\lambda \mu}{U_m^2} H^2 = D^2; \quad \bar{u} = \frac{u}{U_m}$$

$$\bar{w} = \frac{w}{U_m}; \quad \bar{\omega} = -(\bar{\eta}(\bar{\xi}) \bar{u} - \bar{w})$$

$$\frac{\partial}{\partial \xi} \eta u^2 + \frac{\partial}{\partial \xi} \omega u = -\frac{\partial}{\partial \xi} \eta \Phi + \frac{\partial}{\partial \xi} (\zeta \eta \Phi)$$

$$\frac{\partial}{\partial \xi} \eta u \omega + \frac{\partial}{\partial \xi} \omega w = \frac{\partial \Phi}{\partial \xi} + \eta \delta \quad (3)$$

$$\frac{\partial}{\partial \xi} \eta u \delta + \frac{\partial}{\partial \xi} \omega \delta = -D^2 \eta w$$

$$\frac{\partial}{\partial \xi} \eta u + \frac{\partial}{\partial \xi} \omega = 0 \quad \omega = -(\zeta \eta u - w)$$

$$\left. \begin{aligned} \omega(\xi, \zeta) &= 0 \text{ for } \zeta = 1 \\ \omega(\xi, \zeta) &= -w(\xi, \zeta) = 0 \text{ for } \zeta = 0 \\ u &= 1 \\ w = \delta = \Phi &= 0 \end{aligned} \right\} \text{ for } \xi \rightarrow -\infty \quad (4)$$

the model is still two-dimensional. (The author's considerations remain two-dimensional till the end of article; thus the problem of generalization of the two-dimensional case to three dimensions without unrealistic complications, posed by the author at the outset, remains untreated and unanswered: Abstractor). Orig. Art. has 2 fig., 13 ft.

SUB CODE: 04 SUBM DATE: none ORIG REF: 003 OTH REF: 001

Card 3/3 BK

PEKELIS, G.

"Finish machining of heated metal surfaces" by [kand. tekhn. nauk]
B. M. Askinazi. Reviewed by G. Pekelis. Mashinostroitel' no.10:47
0 '62. (MIRA 15:10)

(Metal cutting) (Askinazi, B. M.)

PEKELIS, G.

The second life of machine tools. NTO no.1:51 Ja '59.

(MIRA 12:2)

1. Predsedatel' komiteta remonta oborudovaniya Leningradskogo
oblastnogo pravleniya nauchno-tekhnicheskogo obshchestva mashino-
stroitel'noy promyshlennosti.
(Leningrad--Machine-tool industry)

PEKELIS, G.

Develop an industrial organization for the repair of equipment.
NTO 2 no.7:36 J1 '60. (MIRA 13:7)

1. Predsedatel' komiteta remonta oborudovaniya Leningradskogo
oblastnogo pravleniya Nauchno-tekhnicheskogo obshchestva mashi-
nostroitel'noy promyshlennosti.
(Machinery--Maintenance and repair)

MAKHLIN, Z., inzh. (Leningrad); SHNEYDER, V. (g. Anzhero-Sudzhensk,
Kemerovskoy oblasti); IVANNIKOV, V., inzh. (Novosibirsk);
PEKELIS, G., inzh. (Leningrad); KIRYUSHIN, N., inzh. (Krasnodar)

Suggested, created, introduced. Izobr. i rats. no.7:20-21 J1 '61.
(MIRA 14:6)

1. Zamestitel' predsedatelya soveta Vsesoyuznogo obshchestva
izobretateley i ratsionalizatorov obogatitel'noy fabriki 9-15
(for Shneyder).

(Technological innovations)

ZHUKOVSKAYA, Zoya Iosifovna; MINKOV, Vladimir Afroimovich; PEKELIS, Grigoriy Borisovich; PUT'KO, Ivan Ivanovich; Primali ucha-
stiye: GALENCHIK, E.M.; KULAGA, T.N.; BEL'ZATSKAYA, L., red.
izd-va; TURTSEVICH, L., tekhn. red.

[Use of natural gas in power engineering] Ispol'zovanie prirod-
nogo gaza v energetike. Minsk, Izd-vo Akad. nauk BSSR, 1962.
191 p. (MIRA 16:2)

1. Otdel obshchey energetiki Energeticheskogo instituta
Akademii nauk Belorusskoy SSR (for all except Bel'zatskaya,
Turtsevich).

(Power engineering) (Gas distribution)

GOL'DSHTEYN, Samuil Mendelevich; PEKELIS, Grigoriy Borisovich;
AKSENOV, Ye.A., dots., nauchn. red.

[Use of peat in electric power engineering] Ispol'zovanie
torfa v elektroenergetike. Minsk, Nauka i tekhnika, 1964.
106 p. (MIRA 18:5)

OVCHINIKOV, V.I., glav. red.; OSNOCHEPKOVA, V.A., red.; FEKELIS, G.D., red.; VOLKOV, H.P., red.; ELMEIN, I.T., red.; ANKOV, S., tekhn. red.

[Thermal and electric power] Teploenergetika; nauchno-tekhnicheskii sbornik. Minsk, 1961. 80 p. (MIRA 15:11)

1. Nauchno-tekhnicheskoye obshchestvo energeticheskoy promyshlennosti. Belorusskoye respublikanskoye otdelenie.
(Power engineering) (Electric power)

VARANKIN, Yu.V., red.; VOLKOV, N.P., red.; KASATKIN, I.I., red.;
KRASNOVSKIY, A.Z., red.; MATYUSH, A.N., red.; NOVASH, V.I.,
red.; PEKELIS, G.B., red.; RATSEVICH, V.O., red.; DOLGIY,
V.Ya., red.

[Electric power plants and networks; exchange of technical
and work experience] Elektrostantsii i seti; obmen proizvod-
stvenno-tekhnicheskim opytom. Minsk, 1962. 87 p.

(MIRA 17:6)

1. Nauchno-tekhnicheskoye obshchestvo energeticheskoy pro-
myshlennosti. Belorusskoye respublikanskoye otdeleniye.

PEKELIS, Grigoriy Borisovich; GUZHAVIN, G.I., red.; VOROPAYEV, D.I., tekhn.red.

[Power engineering in White Russia during the sixth five-year plan]
Energetika Belorusskoi SSR v shestoi piatiletke. Minsk, 1956. 33 p.
(Opshchestvo po rasprostraneniu politicheskikh i nauchnykh znani
Belorusskoi SSR, no.22) (MIRA 10:12)
(White Russia--Electric power plants)

SOV/12-58-1-206

Translation from: Referativnyy zhurnal, Elektrotehnika, 1958, Nr 1, p 27 (USSR)

AUTHOR: ~~Elekalis, G. D.~~

TITLE: Kolkhoz-Type Heating-and-Power Stations in BelSSR and Connection of Kolkhozes to Power Systems (Kolkhoznye TETs v BSSR i prisoyedineniye kolkhozov k energosistemam)

PERIODICAL: V sb.: Teplosnabzheniye i teploenerg. ustanovki s. kh. Minsk. AN BSSR, 1956, pp 14-33

ABSTRACT: Peculiar features of BelSSR agricultural power supply are: (1) general electric energy requirements are comparable to industrial requirements; (2) branches of agricultural production with high heat requirements have a relatively great importance; (3) hydro-power resources of BelSSR can supply only 12-15% of the total energy requirements; (4) considerable local peat resources are available; (5) small size of the Republic permits supplying all kolkhozes by electric transmission lines fed from power systems. BelSSR was first to adopt mass construction of small-size kolkhoz heating-and-power stations. Engineering and economic analysis has shown that construction of such small

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SOV/ 112-58-1-206

Kolkhoz-Type Heating-and-Power Stations in BelSSR and Connection of Kolkhozes . . .

kolkhoz stations is expedient wherever a heating load exists. With a sufficient heating load, such a kolkhoz station can produce cheaper electric energy than that obtainable from a power system; heat savings constitute up to 40%. Per-unit capital investment with simple buildings of the kolkhoz station (2000 rubles /kwh for a station with one P-75 locomobile) is approximately equal to that of larger condensation-type electric stations of the power system. Besides, a connection to the power system, without building the kolkhoz station, would necessitate a considerable capital investment in heating installations. Constructing a number of kolkhoz stations that would carry part of the peak load would tend to decrease the power-system capital investment. This conclusion is drawn: a kolkhoz station with a partial heating load is economically warranted under the conditions prevailing in BelSSR.

Z. M. M.

AVAILABLE: Library of Congress

- 1. Power plants--USSR
 - 2. Power plants--Operation
 - 3. Power plants
- Equipment

Card 2/2

SOV/137-58-7-14095

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 7, p 16 (USSR)

AUTHOR: Pekelis, G. B.

TITLE: Methods of Analysis of a Scrubber for Deep Cooling and Drying of Gases (O metodike rascheta skrubbera dlya glubokogo okhla-zhdeniya i osusheniya gazov)

PERIODICAL: Sb. nauchn. rabot. Belorussk. politekhn. in-t, 1957, Nr 62, pp 141-160

ABSTRACT: Examination is made of the analysis of a scrubber (S) for deep cooling and drying of gases at given parameters of temperature, moisture, and heat contents of the gas at the S input, the quantity of heat to be used in the S, the temperature of the water at the S input, and the temperature to which the water is heated. The irrigation ratio B, constituting the ratio of the amount of water entering the S to the quantity of dry gases, is determined without consideration of the amount of water vapor condensing from the gases, as follows: $B = Q_{lat} / [(\tau - v_3)G_{dg}(1 - k^1)]$ kg/kg, and the water consumption per S is: $W_3^1 = Q_{lat} / [(\tau - v_3^1)(1 - k^1)]$ kg. where Q_{lat} is the quantity of heat derived by the water in the S; v_3 and τ are the S inlet

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SOV/137-58-7-14095

Methods of Analysis of a Scrubber for Deep Cooling and Drying of Gases

heat transfer from gas to water in accordance with "dry" heat exchange. The degree of accuracy in determining the surface by this method will depend upon the accuracy with which a_c is determined. This question demands independent investigation.

G. G.

1. Towers (Chemistry)--Operation
2. Gases--Cooling
3. Gases--Dehydration

Card 3/3

8(6)

SOV/112-59-2-2502

Translation from: Referativnyy zhurnal. Elektrotehnika, 1959, Nr 2, p 33 (USSR)

AUTHOR: Pekelis, G. B.

TITLE: Heat Balance of a Boiler Plant Using High-Moisture-Content Fuel
(Teplovoy balans kotel'noy ustanovki na vysokovlazhnom toplive)

PERIODICAL: Sb. nauchn. rabot Belorussk. politekhn in-ta, 1957, Nr 62,
pp 161-171

ABSTRACT: The existing methods for determining η_{ku} and segregated losses on the basis of lower heat value can result in an estimated plant efficiency exceeding 100% in the case of a high-moisture-content fuel, deep cooling of flue gases in the scrubbers, and a partial utilization of steam-condensation heat. It is suggested that the quantity Q_v^r be taken as the basis for efficiency determinations and that an additional element Q_v of the heat balance be introduced; Q_v is the heat loss associated with water vapor in flue gases. A juxtaposition of the heat balance, estimated by conventional and by the above

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Heat Balance of a Boiler Plant Using High-Moisture-Content Fuel

methods with $W^T = 35$ and 45% , with and without the scrubber, yields the following data: in the first case, the efficiency is lowered by $1.3-1.5\%$, in the second case, by 4% . A scrubber that utilizes 50% of water-vapor condensation heat permits raising the actual η_{ku} or the coefficient of absolutely dry fuel utilization by $20-29\%$; of all losses, the most important is Q_6 which, by means of a scrubber, can be reduced $2.2-2.3$ times. Economic comparison of various schemes of open-cycle fuel drying with the closed cycle should be made on the basis of the coefficient of absolutely dry fuel utilization.

A. B. M.

Card 2/2

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