

L 29212-66

ACC NR: AP6019079

2nd stage of the reaction was not observed. The 4-stage, phasic changes in cardiac activity were secondary: they developed as a result of the effect of the primary changes (those in the blood pressure) on the baroreceptors of the carotid sinuses and of the aortic arch. On suppression of the sino-aortic mechanism, which masked the direct action of adrenalin on the heart, this action could be observed. Bilateral vagotomy or administration of atropine (0.1 mg/kg) did not affect the changes in blood pressure produced by adrenalin, but the phasic changes in cardiac activity were eliminated. On administration of ganglion-blocking agents (10 mg/kg tetamon-I or 1-2 mg/kg hexonium), these phasic changes also did not take place - there was only a uniform acceleration in cardiac activity. The direct action on the heart predominated over the reflex mechanism when doses of adrenalin greater than 500 gamma were administered: a pronounced tachycardia was produced, while the blood pressure increased simultaneously. Orig. art. has: 6 figures. [JPRS]

SUB CODE: 06 / SUBM DATE: 20Jan64 / ORIG REF: 010 / OTH REF: 015

Card 2/2 CC

LOGGA, R.Yu. [Looga, R.]; KULL, M.M. [Kull, M.]

Method of bloodless determination of arterial pressure in laboratory animals. *Biul. eksp. biol. i med.* 55 /i.e. 56/ no.10: 116-119 0'63 (MIRA 17:8)

1. Iz kafedry patologicheskoy fiziologii (ispolnyayushchiy obyazannosti zaveduyushchego - dotsent R.Looga) Tartuskogo universiteta. Predstavlena deystvitel'nyy chlenom AMN SSSR V.V. Parinym.

MOGAI, I.; KUBI, H.K. [KUBI, I.]; MOGAI, I.

Changes in the arterial pressure and cardiac rhythm in dogs following introduction of adrenaline. Fiziol. zhur. 51 no.5:564-571 My '65. (MIRA 18-6)

1. Kafedra patologicheskoy fiziologii Sverdlovskogo universiteta, Tartu.

KULLA, G.

"Cellulose for Further Chemical Treatment." p. 62 (CHEMICKE ZVESTI, Vol. 5, No. 1/2, Jan./Feb. 1951) Bratislava, Czechoslovakia

SO: Monthly List of East European Accessions, Library of Congress, Vol. 3, No. 4, April 1954. Unclassified.

KULLE, P. A.

ANTONOV, N.P.; KULLE, P.A.; MARAMZIN, A.V.; UFKIN, I.A.; VITTORE, M.V.,
redaktor; MOLOKOVA, Ye.I., vedushchiy redaktor; SOKOLOVA, Ye.V.,
tekhnicheskiiy redaktor

[Exploratory drilling with the ZIF-300 drilling unit; practical
manual] Razvedochnoe burenie stankami ZIF-300; prakticheskoe
rukovodstvo. Leningrad, Gos. nauchno-tekhn. izd-vo neftianoi i
gorno-toplivnoi lit-ry, 1954. 221 p. (MIRA 7:9)
(Boring machinery)

KULLE, P. A., PONOMAREV, P. V.

"Basic Principles of the Hydroelectrical Effect and Possibilities of Its Use in Borehole Drilling"

(New Developments in the Methods and Techniques of Geological Exploration)
Leningrad, Gostoptekhnizdat, 1958. 423 p. (Series: Its: Sbornik trudov 1)

KULLE, P.A.; PONOMAREV, P.V.

Nature of the electrohydraulic method and possibilities of
using it in drilling wells. Trudy VITR no.1:366-388 '58.
(MIRA 12:1)

(Boring)

KULLE, P.A.; LOPACHENOK, L.V.

Automation of the process of drying of salts in an apparatus
with a fluidized bed. Khim.prom. no.11:805-808 N '62.

(MIRA 16:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut 'galurgii.
(Salts--Drying) (Fluidization)
(Automatic control)

KULLE, P.A., doktor tekhn.nauk; LOPACHENOK, L.V.

Automatic control of a fluidized-bed unit for drying potassium
chloride. Biul.tekh.-ekon.inform.Gos.nauch.-issl.inst.nauch.i
tekh.inform. no.2:16-18 '63. (MIRA 16:2)
(Potassium chloride--Drying) (Automatic control)

KULLE, P.A.; LOPACHENOK, L.V.

Electron modeling of automatic control systems for dryers with
fluidized bed. Khim.prom. 41 no.6:412-415 Ju '65.

(MIRA 18:8)

KULLÉ, Ye. A.

"The Problem of the Long-Term Incubation Period of Tertian Malaria in Vologda Oblast", Med. Paraz. i Paraz. Bolez., Vol. 17, No. 1, pp 57-64, 1948.

S/137/62/000/001/154/237
A006/A101

AUTHOR: Kullel, I.

TITLE: Recommendations as to the melting and processing of the L-214 alloy

PERIODICAL: Referativnyy zhurnal. Metallurgiya, no. 1, 1962, 44-45, abstract
11310 (V sb. "26-y Mezhdunarodn. kongress liteysnikov, 1959", Mos-
cow, Mashgiz, 1961, 530 - 537)

TEXT: Mechanical tests and microscopical investigations were made with a great number of specimens of different heats of the L-214 alloy. The tests made it possible to establish a definite connection between σ_{δ} and δ , which is expressed by a straight line on the semi-logarithmic scale. Specimens, for which σ_{δ} and δ are located directly on this line or close to it, do not possess intercrystalline microporosity. If however, the values of mechanical properties are located below the aforementioned line, this indicates intercrystalline porosity, which is usually connected with insufficient dissolving of strengthening phases. Experimental data were analyzed and a comparison was made of the chemical compositions of the L-214 alloy, French grade alloys AJR3380, AF NOR-A57-702, Italian grade G-Al, Cu 4.5, and German DIN1725 alloys. The following composition of the

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Recommendations as to the melting ...

8/137/62/000/001/154/237
A006/A101

alloy can be recommended (in %): Cu 4.0 - 4.8; Ti 0.2 - 0.3; Mg 0.15 - 0.3; Si \leq 0.3, Zn \leq 0.1 and other elements \leq 0.2. A higher Cu content (over 5%) is not recommended due to the danger of arising composite low-melting eutectics, which may entail burning of the alloy during heat treatment. To assure maximum dissolving of secondary phases, the following heat treatment conditions are recommended: heating for 3 hours from 100 to $530 \pm 5^\circ\text{C}$, holding for 6 hours, temperature decrease to 500°C , 1 hour holding, cooling in water at 50°C , heating at $130 \pm 20^\circ\text{C}$ for 2 hours with subsequent air cooling.

E. Kadaner

[Abstracter's note: Complete translation]

Card 2/2

KIRRET, O.; KÜLLIK, E.

Identification of natural and synthetic fibers by the gas chromatographic method. Izv. AN Est. SSR. Ser. fiz.-mat. i tekhn. nauk 13 no.1:15-21 '64 (MIRA 18:1)

1. Academy of Sciences of the Estonian S.S.R., Institute of Chemistry. 2. Corresponding Member of the Academy of Sciences of the Estonian S.S.R. (for Kirret).

KUHLMAN, Eugen

Effect of Quaternary sediments on the hydrogeologic conditions
of the piedmont depression of Sahorska nizina. Geol prace
64:159-164 '63.

1. Dionyz Stur Geological Institute, Bratislava.

KLIMES-SZMIK, Andor; KULLMANN, Anton

Factors directly influencing the determination of the porosity of soils. Agrochem talajtan 2 no.1:55-72 Mr '62.

1. Magyar Tudományos Akademia Talajtani es Agrokemiai Kutato Intezete, Budapest (for Klimes-Szmik). 2. NMGTA Foldmuvelési es Novenytermesztési Kutato Intezete, Mancheberg/Mark, Nemet Demokratikus Koztarsasag (for Kullmann).

KULIMANN, Lajos, MAV muszaki fotanacos

The work of the International Railway Union and the
Organization for Cooperation of Socialist Railways in the
development of railroad vehicles. Jarmu mezo gep 10 no.4:121-126
Ap '63

KUCSMAN, H.

Development in woodworking machinery during the past 40 years. Tr. from the German. p.91

FAIPAR. (Faipari Tudomanyos Egyesulet)
Budapest, Hungary
Vol. 9, no.3, Mar. 1959

Monthly List of East European Accessions (MEAT) LC., Vol. 8, no.7, July 1959
Uncl.

KULLOI-RHOKER, L.

Therapeutic value of the cervical sympathetic block; experiences from
700 experimental infiltrations. Orv. hetil. 92 no.19:592-596 13 May
1951. (CINL 24:2)

1. Doctor. 2. First Surgical Clinic (Director -- Prof. Dr. Gyula
Sebesteny), Lorand Eotvos University, Budapest.

KULLOI-RHORER, Laszlo, dr.

Modified operative method for sympathetic denervation of the upper
extremities. Magy.sebeszet 8 no.1:62-68 Feb 55.

(SYMPATHECTOMY,
dorsal, modified method)

~~XXXXXXXXXX~~
KULLOI RHORER, Iaszlo, Dr.

Justification of high lumbar sympathectomy. *Magy. sebeszet* 10 no.2-3:
114 119 Apr-June 57.

1. A Budapesti Orvos tudományi Egyetem II. sz. Seveszeti Klinikájának
közleménye Igazgató: Rubanyi Pal dr. egyetemi tanár.

(SYMPATHECTOMY, in various dis.

high lumbar sympathectomy in peripheral vasc. dis.,
evaluation (Hun))

(VASCULAR DISEASES, PERIPHERAL, surg.

sympathectomy, high lumbar, evaluation (Hun))

KULLOI-RHORER, L.; ERDELYI, M.; MESZOLY, I.; VOTIN, J.

Clinical experiences on the therapy of postoperative complaints following cholecystectomy. Acta med. hung. 10 no.3:261-272 1957.

1. II. Chirurgische Klinik der Medizinischen Universitat, Budapest.

(CHOLECYSTECTOMY, compl.
postcholecystectomy synd., choledochoduodenostomy
(Ger))

(BILE DUCT, COMMON, surg.
choledochoduodenostomy in postcholecystectomy synd.
(Ger))

(DUODENUM, surg.
same)

~~KULLOI-RHORER, Laszlo, dr.~~

Data on the surgical treatment of elephantiasis. Orv. hetil.
98 no.1-4:56-60 Jan 57.

1. A Budapesti Orvostudományi Egyetem III. sz. Sebészeti,
Klinikájának (igazgató: Rubanyi, Pal, dr. egyet. tanár)
közleménye.

(LYMPHEDEMA, surg.

elephantiasis, lymphangiectomy with total superficial
surg. (Hun))

KULJOSI-RHOHER, Laszlo, dr., sebeszfoorvos

Fundamentals of health protection. Vasut 14 no.11:20 '64.

KULLOI-RHORER, Laszlo, dr.

Surgically cured duodenal carcinoid. Orv. hetil. 106 no.12:
553-555 21 Mr '65

1. Mav Korhaz es Kozponti Rendelointezet, I. Sebeszeti Csztaly.

SMIRNOV, V.N.; SPIRIN, A.S.; KULLYYEV, P.; ZBARSKIY, I.B.

RNA synthesis in the silk gland of the mulberry silkworm. Dokl.
AN SSSR 155 no. 4:957-960 Ap '64. (MIRA 17:5)

1. Institut biokhimii im. A.N.Bakha AN SSSR i Institut
morfologii zhivotnykh im. A.N.Severtsova AN SSSR. Predstavleno
akademikom A.N.Belozerskim.

SMIRNOV, V.N.; KULLYYEV, P.; VARSHAVSKIY, Ya.M.; SPIRIN, A.S.

Participation of ribosomes in the biosynthesis of silk fibroin.
Dokl. AN SSSR 156 no. 5:1221-1224 Je '64. (MIRA 17:6)

1. Institut radiatsionnoy i fiziko-khimicheskoy biologii AN SSSR
i Institut biokhimii im. A.N.Bakha AN SSSR. Predstavleno akademikom
A.N.Belozerskim.

MAMEDNIYAZOV, O.N.; SOLOV'YEVA, N.V.; KULLYEV, P.; KASPAR'YANTS, L.R.

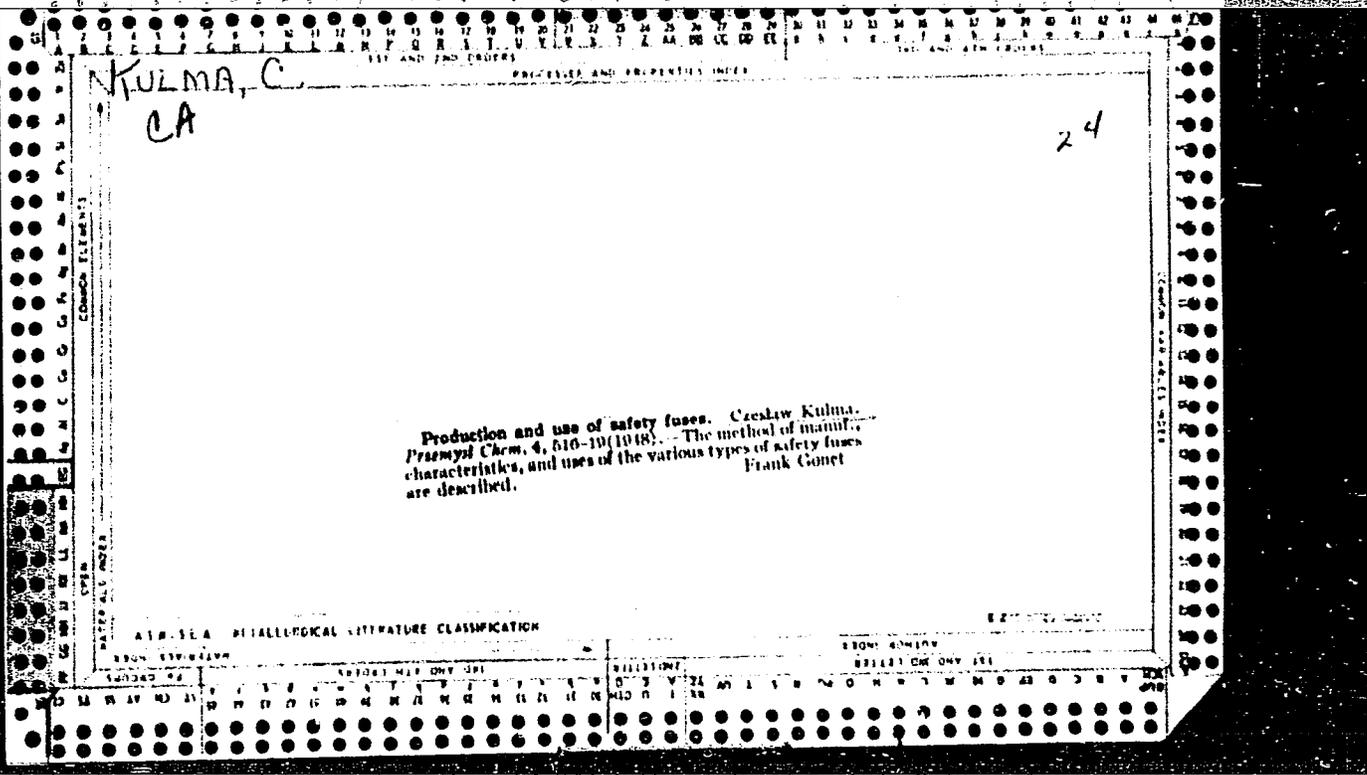
Comparative study of the chemical composition of different mulberry varieties growing in Chardzhou District, Turkmen S.S.R. Izv. AN Turk. SSR. Ser. biol. nauk no.5:68-72 '61. (MIRA 14:12)

1. Institut zoologii i parazitologii AN Turkmenskoy SSR.
(CHARDZHOU DISTRICT--MULBERRY--VARIETIES)

MAMEDNIYAZOV, O.N.; KASPAR'YANTS, L.R.; KULLYEV, P.

Content of nitrogen compounds in the hemolymph of various mulberry
~~silkworm strains differing in~~ their productivity. Izv. AN Turk.
SSR.Ser. biol. nauk no.2:69-73 '62. (MIRA 17:4)

1. Institut zoologii i parazitologii AN Turkmenskoy SSR.



BA KULMA, O.

B1
4

Research on core binders. O. Kulma and Z. Wertz (*Prüfung*
Odern., 1951, 2, 128--134; *J. Iron Steel Inst.*, 1951, 180, 403).—
Methods of testing core binders are described, and results of a study
of binders presented. H. H. CLARKE.

KULMA, O.; WERTZ, Z.

Changes in core strength during its moistening. p. 293.

PRZEGLAD ODLEWNICTWA. (Stowarzyszenie Techniczne Odlewnikow Polskich)
Krakow, Poland, Vol. 9, no. 10, Oct. 1959.

Monthly list of East European Accessions (EEAI) LC, Vol. 9, no. 1, Jan. 1960.

Uncl.

KULMA, S., NEUMANN, S.

"Łozyska toczne" (Roller bearing), by S. Kulma, S. Neumann. Reported in
New Books (Nowe Książki), No. 14, July 15, 1955

KULMA, S.

The standardization of journal bearings. p. 473.
MECHANIK, Warazawa. Vol. 28, no. 12, Dec. 1955.

SOURCE: East European Acession List (EEAL) Library of Congress
Vol. 5, no. 8, August 1956.

98-58-4-8/18

AUTHOR: Kul'mach, P.P., Candidate of Technical Sciences

TITLE: On the Rigidity of Foundations of Massive Hydro-Technical Structures (O zhestkosti osnovaniy massivnykh gidrotekhnicheskikh sooruzheniy)

PERIODICAL: Gidrotekhnicheskoye Stroitel'stvo, 1958, Nr 4, pp 35-38 (USSR)

ABSTRACT: In the calculation of free and forced oscillation of hard bodies on an elastic foundation, formulas are used, which include coefficients of rigidity of foundation C_x , C_z and C with regard to shear, compression and rotation of a solid body around a horizontal axis passing through the center of gravity of the bottom. In the latter case the shift of A representing a given point of the structure under the effect of torque could be determined by the formula

$$A = \frac{Mr}{J_0 C_x}$$

in which r - is the distance between the axis of rotation and the given point

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and J_0 - the moment of inertia of the surface of the bottom

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On the Rigidity of Foundations of Massive Hydro-Technical Structures

of the structure in relation to the axis of rotation. This formula and those developed are the result of special experimental and theoretical investigations. However, there is no experimental data from which it would be possible to determine the coefficient of rigidity of the foundation of massive hydro-technical structures standing in water and subject to considerable stress at the bottom. In this connection data pertaining to oscillations of certain existing structures, in particular investigations carried out on the breakwater in Algiers, are of special interest. A cross section of the breakwater is shown, consisting of 4 layers of masonry, each weighing 400 - 500 tons topped by a monolithic superstructure. This massive wall which measures 13 m at the bottom rests on a 4 m stone foundation. In 1934, the breakwater was severely damaged. Extensive investigations, which were conducted to determine the cause, furnished valuable information which permitted the evaluation of the coefficient of rigidity of the base of the breakwater. The results of these experiments are fully described as are the results of similar tests at Tuapse, Yalta, Feodosiya, Zeebrygge, Marsel and Kataniya. In all cases, it was observed

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98-58-4-8/18

On the Rigidity of Foundations of Massive Hydro-Technical Structures

that breakwaters begin to sway even when small waves beat against the walls. The subject demands special investigations, however, the results shown can be utilized in the dynamic calculations of hydrotechnical structures.

There are 3 figures, 1 table and 13 references, of which 8 are Soviet, 3 French and 2 Italian.

AVAILABLE: Library of Congress

Card 3/3

1. Structures-Design
2. Structures-Mathematical analysis
3. Dams-Design

KUL'MACH, P.P., kand.tekhn.nauk

Vibration of a solid body resting on a mobile elastic foundation.

Izv. VNIIG 60:142-153 '58. (MIRA 13:6)

(Foundations) (Elastic solids)

KUL'MACH, P.P., kand. tekhn. nauk dots. (Leningrad)

Application of the problem in vibrations of elastically supported
solid bodies. Issl. po teor. sooruzh. no.8:79-91 '59.

(Foundations--Vibration) (Damping (Mechanics)) (MIRA 12:12)

KUL'MACH, P.P. (Leningrad)

Dynamic calculation of structures with high rigid pile grillage;
seismic effect. Osn., fund. i mekh. grun. 4 no.3:21-24 '62.

(MIRA 15:7)

(Piling (Civil engineering))
(Earthquakes and building)

KUL'MACH, Pavel Petrovich; YUFIN, A.P., doktor tekhn. nauk, prof.,
otv. red.; ORPIK, S.L., red. izd-va; UL'YANOVA, O.G., tekhn.red.

[Hydrodynamics of hydraulic structures]Gidrodinamika gidrotekh-
nicheskikh sooruzhenii; osnovnye ploskie zadachi. Moskva, Izd-
vo Akad. nauk SSSR, 1963. 189 p. (MIRA 16:2)
(Hydraulic structures)

KULMACH, P. P., kand tekhn nauk, dotsent

Action of water on the blades of a hydraulic turbine in presence
of vibrations. Izv vys ucheb zav; energ 7 no. 1:86-91 Ja '64.
(MIRA 17:5)

KUL'MAKHANOV, Ye.; SOLOPOV, A.; KOVALEV, V., prepodavatel'

News from schools. Prof.-tekh. obr. 20 no.112, 3 of cover Ja '69.
(MIRA 1612)

1. Pomoshchnik direktora po kul'turnovospitatel'noy rabote khodzhey-linskogo uchilishcha mekhanizatsii sel'skogo khozyaystva No.24, Kara-Kalpaksкая ASSR (for Kul'makhanov).
 2. Tekhnicheskoye uchilishche No.10, L'vov (for Kovalev).
- (Vocational education)

22 (1)

AUTHORS:

Kul'mamet'yev, G., School Director, and Demin G., Deputy School Director

SOV/27-59-2-11/30

TITLE:

On the New Road (Na novom puti)

PERIODICAL:

Professional'no-tékhnikeskoye obrazovaniye, 1959, Nr 2, pp 18 - 19 (USSR)

ABSTRACT:

The reorganization of the MTS and transfer of their equipment to the kolkhozes has necessitated a revision of present curricula in agricultural mechanization schools. As the existing Labor Reserve Schools will be maintained for the next 3 to 5 years, the authors believe that mechanization schools can divide their activities into 3 periods: 1) Present activities remain unchanged until 1961; 2) Transitional period 1962-63 and 3) Period of complete reorganization into agricultural vocational-technical schools. During the first period as before, young people, preferably with 7 years of education and not younger than 17 should be admitted. Changes in the curricula are suggested which would give the students more time to become skilled in repair work. Another suggestion aims at training a new type

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On the New Road

SOV/27-59-2-11/30

of workman - a mechanic with 1 year of training for installation and repair of stationary agricultural machinery. The authors complain that their school is short of up-to-date equipment such as tractors DT-24, DT-28, DSSh-16 and DT-54 with a hydraulic system, and of combiners S-4M, SK-3, PK-2, and stress that it is important to train students on modern equipment. During the transitional period, mechanization schools should work on two curricula: the old one with 1 year of training for tractor operators and the installation and repair mechanics and a new curriculum with 2 years of training. The new period is necessitated by introduction of the 8-year polytechnical school. It is also considered expedient that training farms have a minimum size of 500 to 700 ha with 250 to 300 students. During the transitional period the mechanization schools will gain some training experience according to the new curriculum and gradually prepare for the complete reorganization into rural vocational technical schools. The latter will admit only graduates from 8-year rural or urban schools. There is 1 photograph.

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SOV/27-59-2-11/30

On the New Road

ASSOCIATION: Uchilishche mekhanizatsii sel'skogo khozyaystva Nr 3
(Udmurtskaya ASSR) (School of Agricultural Mechanization
Nr 3 (Udmurt ASSR)

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18(5)

SOV/128-59-6-18/25

AUTHOR: Kul'mamet'yev, V.S., Engineer

TITLE: Centrifugally Cast Bushes

PERIODICAL: Liteyroye Proizvodstvo, 1959, Nr 6, p 42 (USSR)

ABSTRACT: Brass bushes of all dimensions have been cast in sand molds. The serviceable castings were 54% to 58% of the whole production. Now centrifugal casting (by means of metal molds with sand core material) has been introduced. (Mixture used: 85% of quartz sand, 15% of Marshalit, etc.). In this manner the production of defects was eliminated, non-ferrous metals saved, and the quality of the castings improved. There is 1 diagram

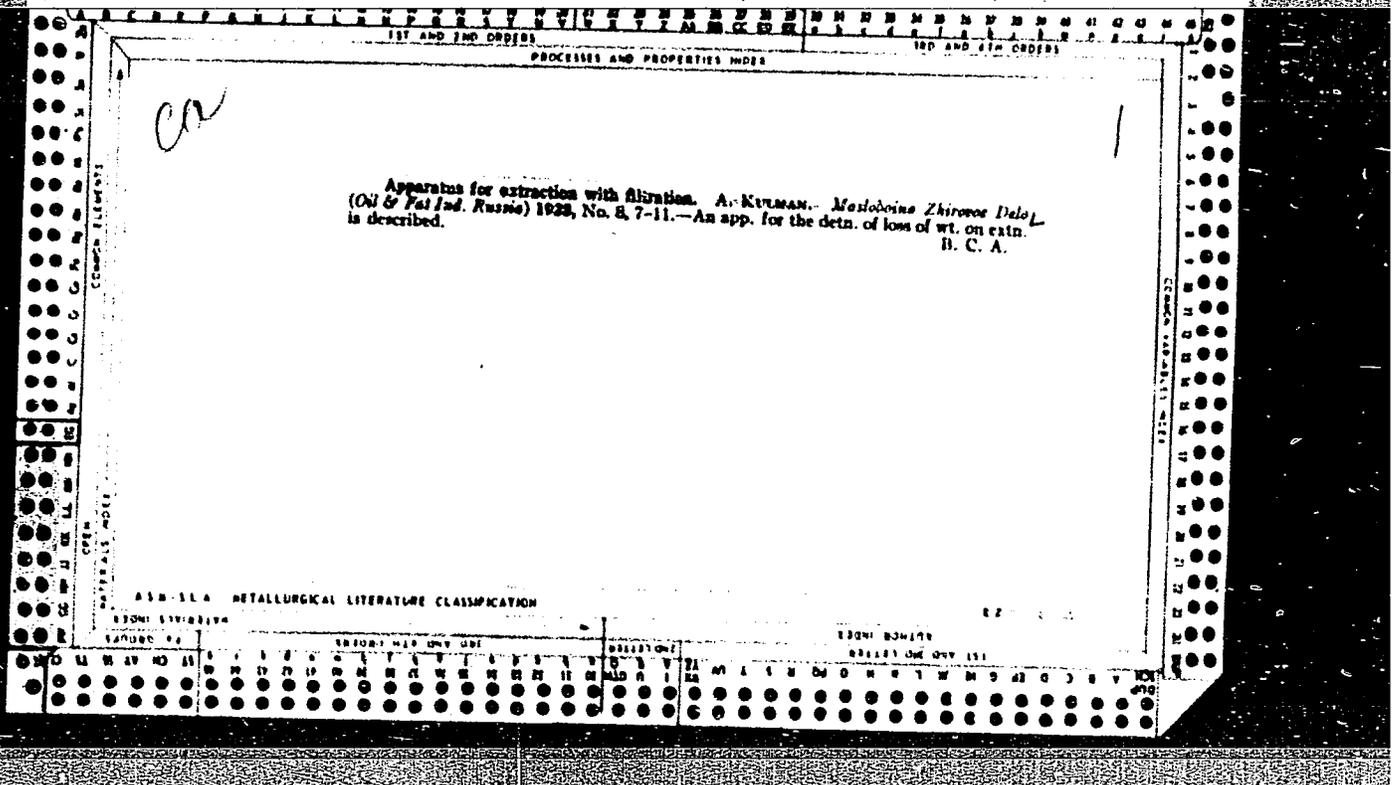
Card 1/1

KULMAN, A.

"Problems in determining the firmness of lumps and the formation of the lumpy structure of soils."

p. 147 (Mezhduna Rodnyi Selskokonoziaistvennyi Zhurnal, Vol. 2, No. 2, 1958, Sofia, Bulgaria).

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 12, Dec. 58.



6-5 DUMANSKIY, A. V., KUL'MAN, A. G., and GOLOSOVA, G. I.

"Bound water in bread baking," M-L, Ssnabtekhizdat, 1934.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

1 A 2 B 3 C 4 D 5 E 6 F 7 G 8 H 9 I 10 J 11 K 12 L 13 M 14 N 15 O 16 P 17 Q 18 R 19 S 20 T 21 U 22 V 23 W 24 X 25 Y 26 Z 27 AA 28 AB 29 AC 30 AD 31 AE 32 AF 33 AG 34 AH 35 AI 36 AJ 37 AK 38 AL 39 AM 40 AN 41 AO 42 AP 43 AQ 44 AR 45 AS 46 AT 47 AU 48 AV 49 AW 50 AX 51 AY 52 AZ 53 BA 54 BB 55 BC 56 BD 57 BE 58 BF 59 BG 60 BH 61 BI 62 BJ 63 BK 64 BL 65 BM 66 BN 67 BO 68 BP 69 BQ 70 BR 71 BS 72 BT 73 BU 74 BV 75 BW 76 BX 77 BY 78 BZ 79 CA 80 CB 81 CC 82 CD 83 CE 84 CF 85 CG 86 CH 87 CI 88 CJ 89 CK 90 CL 91 CM 92 CN 93 CO 94 CP 95 CQ 96 CR 97 CS 98 CT 99 CU 100 CV

101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150

151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200

201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250

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601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650

651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700

701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750

751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800

801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850

851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900

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KUL'MAN, A. G.

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1935. 579 p.

OCI

TEST AND PROPERTIES INDEX

PROCESSES AND PROPERTIES INDEX

CA

Bound water in bread baking. A. G. Kul'man and O. N. Golosova. *Colloid J.* (U. S. S. R.) 17: 67-69 (1955); cf. *C. A.* 30, 3800^g.--Data are given for bound water in flours from various grains and its effect on the drying-out of bread. The ability of flour, dough and grain to pass into solution. *Ibid.* 63-7. Data are given for changes of this property during baking. F. H. Rathmann

2

ASST. 11.1 METALLURGICAL LITERATURE CLASSIFICATION

1960-1969

1970-1979

1980-1989

1990-1999

2000-2009

2010-2019

2020-2029

2030-2039

2040-2049

2050-2059

2060-2069

2070-2079

2080-2089

2090-2099

ca

A new apparatus for distilling with steam. A. Kul'man.
Soviet. Akhemiol' i Khimopromishl. 1935, No. 6, 30. -- For
 distg. volatile acids from dough and bread and also puri-
 fying some liquids immiscible with H₂O it is recommended
 to carry on the distn. with steam not from a flask, but from
 an app. of the author. The app. consists of a vessel with
 double walls. Steam passes into their interspace from a
 boiler and enters the internal part of the app. in a finely
 divided state owing to its passing through a glass filtering
 plate fixed in the bottom of the internal part of the app.
 Distg. in this app. takes place rapidly and gives a small vol.
 of the distillate. B. V. Shvartsberg

ASA-ILA METALLURGICAL LITERATURE CLASSIFICATION

117 AND 119 CODES PROCESSES AND PROPERTIES INDEX 140 AND 17M CODES

New method of quantitative extraction. A. Kul'man:
*Makoleino Zhivotsvo Dala 11, 498-502(1938); cf. Pisk-
 Zhovaya Prom. No. 8(1929).—Several lab. app. for extr.
 of solids are illustrated and described. Chas. Blanc*

ASD-SLA METALLURGICAL LITERATURE CLASSIFICATION

117 AND 119 CODES 140 AND 17M CODES

117 AND 119 CODES 140 AND 17M CODES

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

2ND AND 4TH ORDERS

12

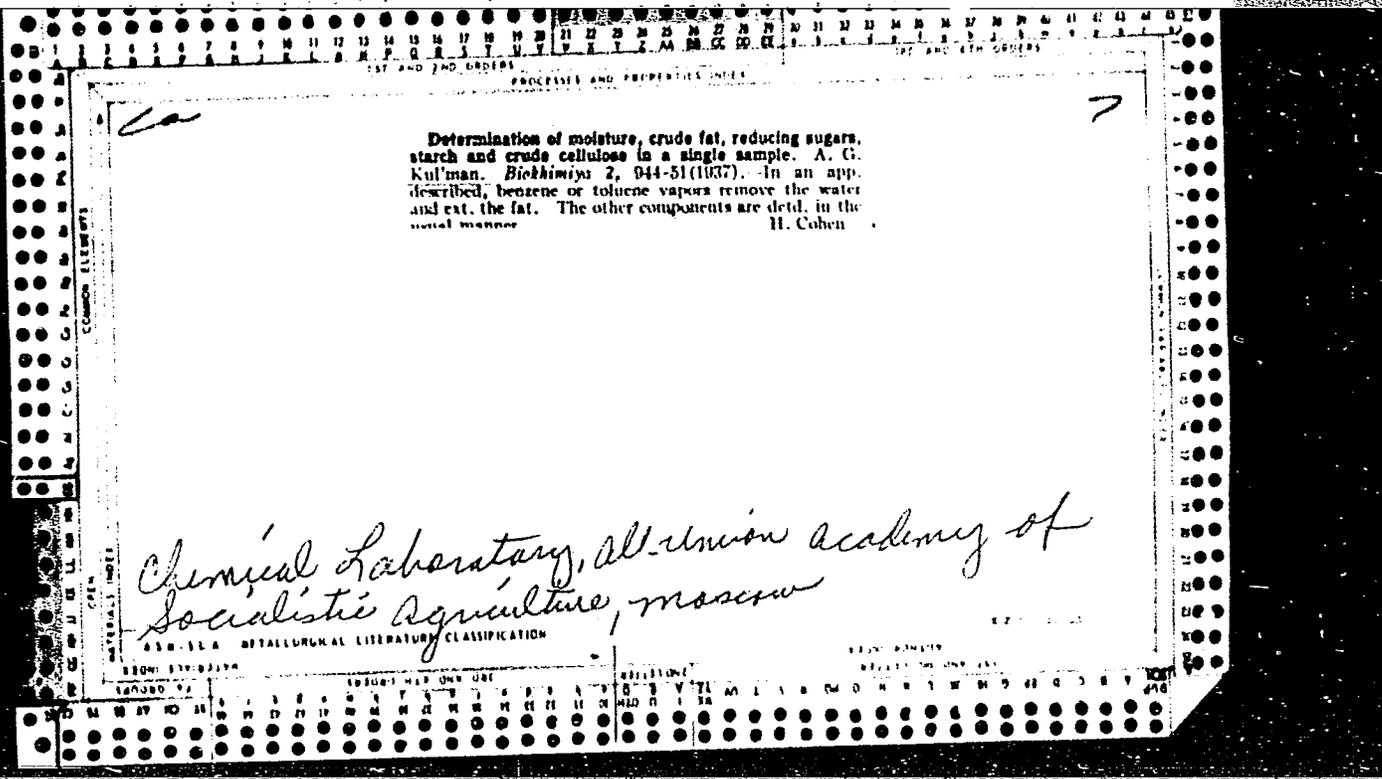
Application of titration analysis to the study of the relative hydrophilic nature of colloids in bakery products. A. G. Kulman. *Colloid J.* (U. S. S. R.) 2, 495-500 (1939); cf. *C. A.* 30, 7220'.—The rate of filtration of wheat-flour suspensions is shown to be a measure of their hydrophilic nature and of their quality from a baker's standpoint. F. H. Rathmann

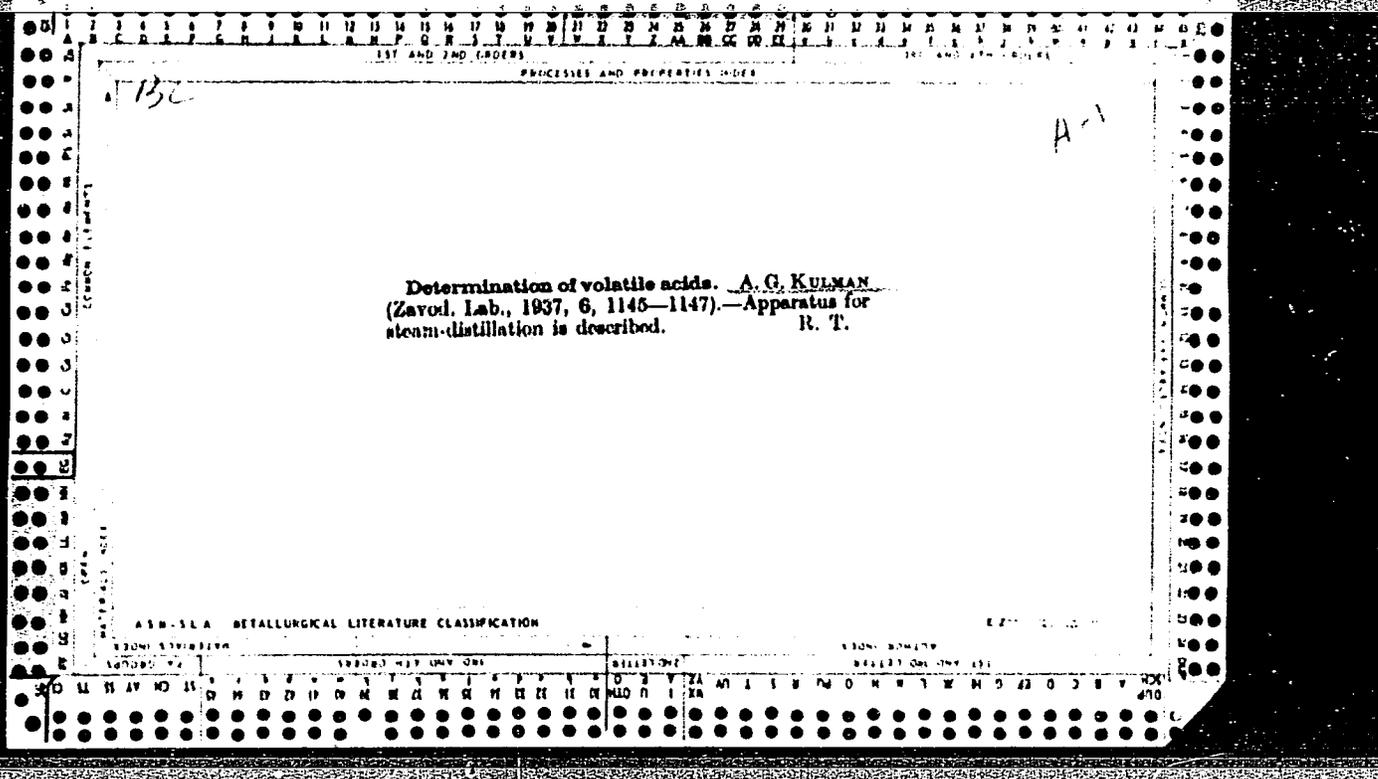
ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

GENERAL NOTE

CLASSIFICATION

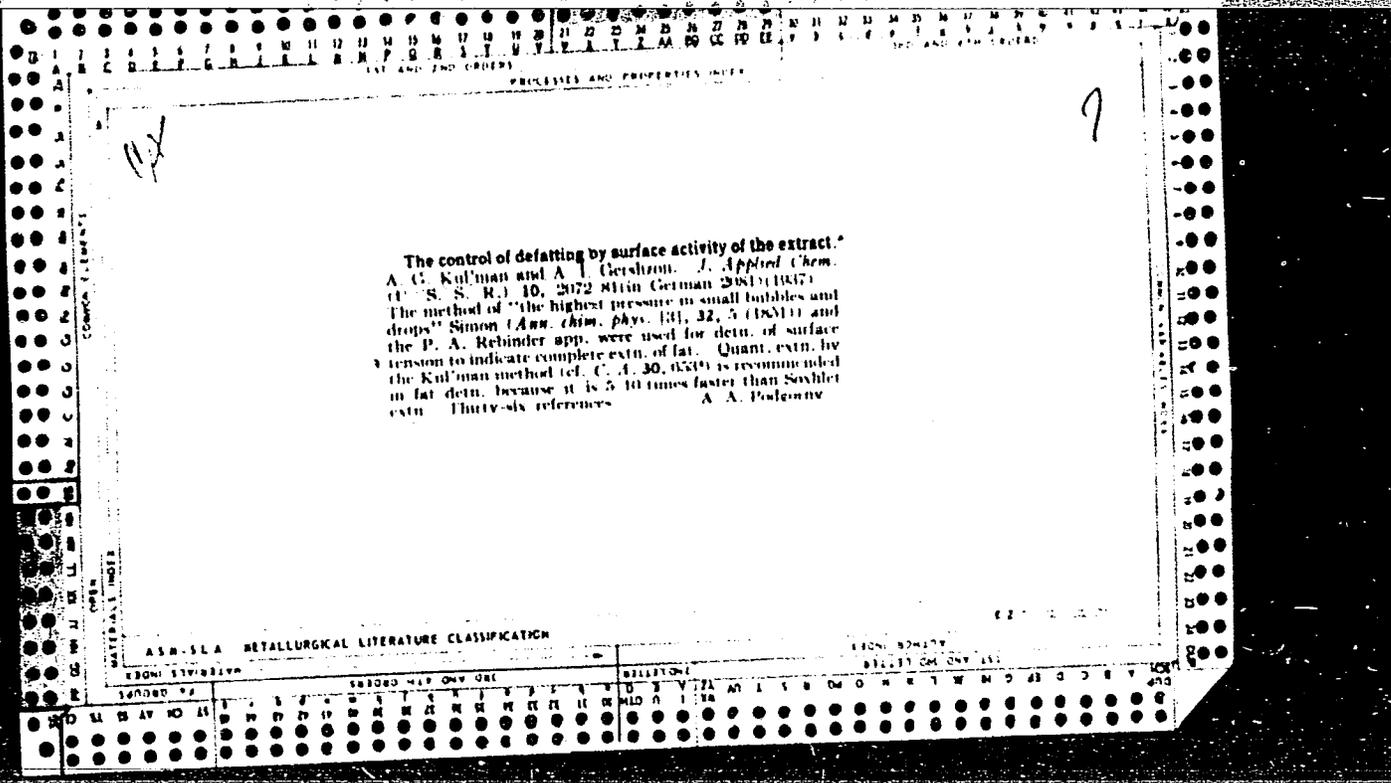
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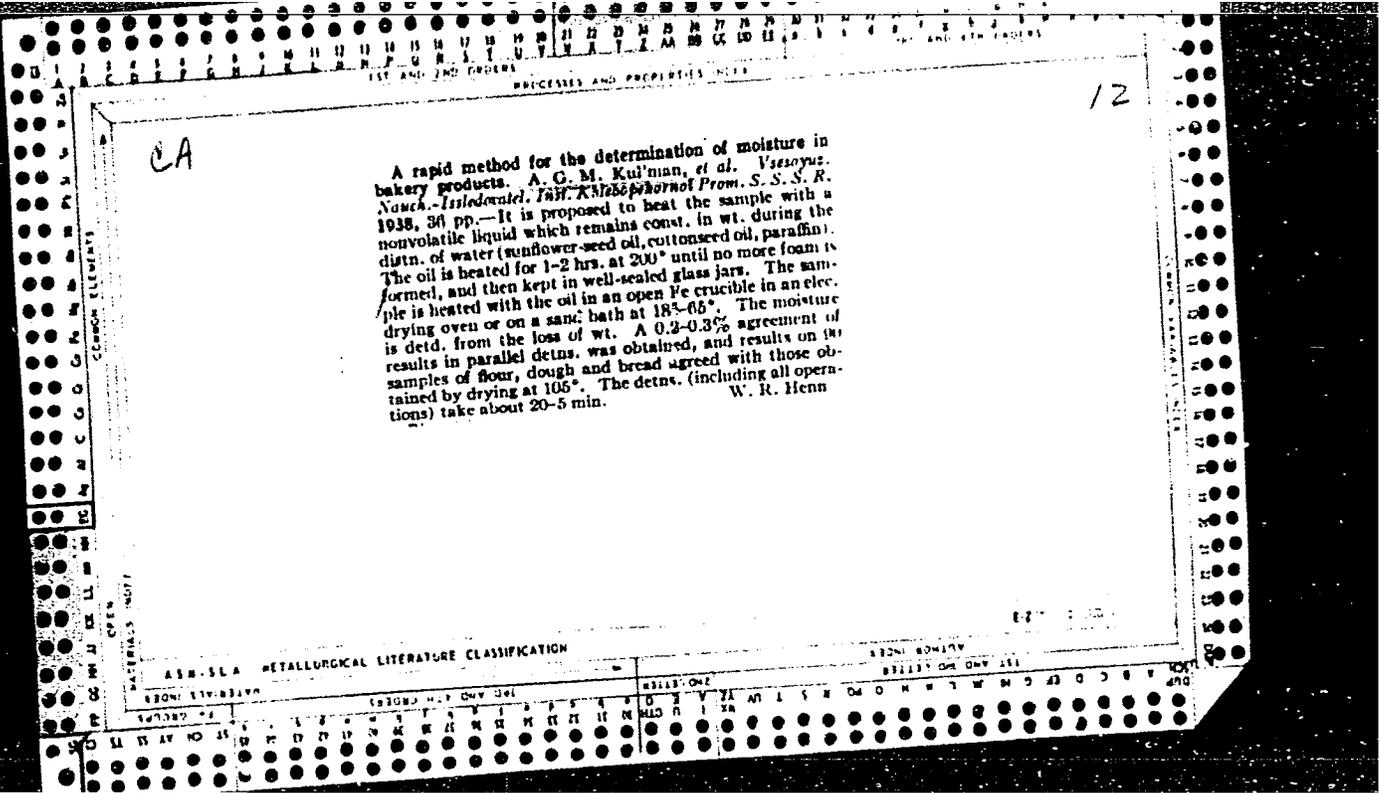


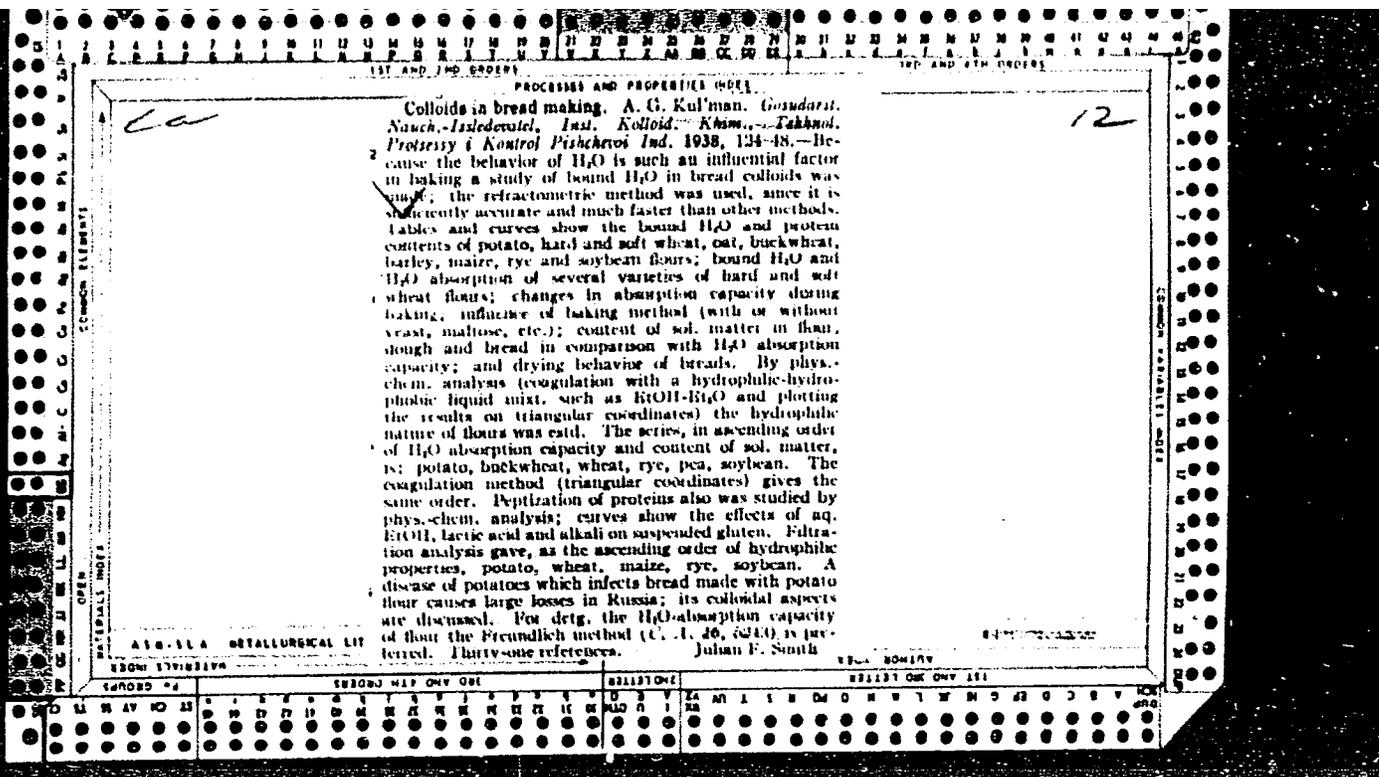


A simple and rapid method for the direct determination of potassium fertilizers in "sovkhozes" and "kolkhozes." A. G. Kul'man. *Kuli* (U. S. S. R.) 1937, No. 10, 10-12; *Khim. Referat. Zhur.* 1, No. 3, 00010300. The reaction with NaClO , which gives a KClO_4 ppt. in the presence of K salts is utilized. The advantage of the use of NaClO is the low cost, the safety of handling it, and the fact that it can be easily manufd. in U. S. S. R. K can be detd. in the presence of the ions of Na , Mg , Ca , Ba , Zn , Al , Cu , and of H_2SO_4 , HNO_3 , HCl , H_3PO_4 , H_2SiO_4 and of others. The NH_4 ion hinders the pptn. because of its pptn. of NH_4ClO_4 together with KClO_4 . Therefore, in testing a sample of the fertilizer it should first be heated until no white fumes of the NH_4 salts are given off. Then the salt is dissolved in water, the soln. is filtered and tested with NaClO soln. This method was used successfully with a no. of fertiliz. samples e.g. 2 K. W. R. Henn

AS 13-31.1 METALLURGICAL LITERATURE CLASSIFICATION







PROCESSES AND PROPERTIES INDEX

2

Co

Staling of bread; influence of added ingredients on the process. A. G. Kul'man and E. P. Malasheva. *Gosudarst. Nauch.-Issledovatel. Inst. Kolloid. Khim. Tekhnol. Priroisessy i Kontrol' Pishchevot Ind.* 1938, 175. The literature of staleness, its nature and causes, is reviewed (62 references). A quant. method for detg. the progress of staling in the first 24 hrs. is described. For the first day the Katz method, among others, serves well, but for older bread it is difficult to apply accurately; for bread 3-5 days old a solution from viscometry, refractometry and filtration analysis, sugars, aldehydes, etc. is recommended. The effects of temp., moisture, and other added ingredients are discussed. Fats tend to mask staleness, sugars to retard it. The descending order of carbohydrate potency is: maltose syrup, glucose syrup, dextrin, beet sugar, maltose, glucose, blank yeast, soluble starch, potato flour. Juan F. Smith

ASB-11A METALLURGICAL LITERATURE CLASSIFICATION

13001 204124

13001 204124

PROCESSES AND PROPERTIES INDEX

12

ca

Solvation of the biocolloids of winter and spring
wheats. A. G. Kul'man. *Biokhimiya* 3, 289-94 (1938).
--Viscosity measurements and filtration tests indicate
that the colloids of winter wheat are more hydrophilic
than the colloids of spring wheat. H. Cohen

Colloid Lab., All-Union Bread-Baking ind., Moscow

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

ea

12

Changes in the colloidal properties of bread during "potato disease." A. G. Kul'man and E. P. Balasheva. *Rizhskimiya 3*, 205-207 (1957). The colloidal properties of normal bread as it ages, and bread undergoing "potato disease," are compared. A suspension of "sick" bread in water, when shaken up in a cylinder, gives more foam than ordinary bread; in this way, the disease may be recognized at a very early stage. H. Cohen

COLLOID LAB., ALL-UNION BREAD BAKING INST, MOSCOW

ASB-51A METALLURGICAL LITERATURE CLASSIFICATION

107080	107081	107082	107083	107084	107085	107086	107087	107088	107089	107090	107091	107092	107093	107094	107095	107096	107097	107098	107099	107100
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1ST AND 2ND ORDERS PRECESSES AND PROPERTIES INDEX THE 3RD AND 4TH ORDERS

CA 12

Water adsorption by flour. A. G. Kul'man and M. I. Kamenskaya. *Colloid J.* (U. S. S. R.); 6; 191-7(1938).
 The rate of penetration of H₂O into dry flour is measured; it is greater for bad specimens than for good ones. The amt. imbibed is almost proportional to the "adsorptive capacity" of flour as measured by a test baking.
 T. J. Bikerman

Common Elements
 Common Literature Elements

ASA-ILA METALLURGICAL LITERATURE CLASSIFICATION
 FROM: 57102101

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

PRECISE AND PROPERTIES INDEX

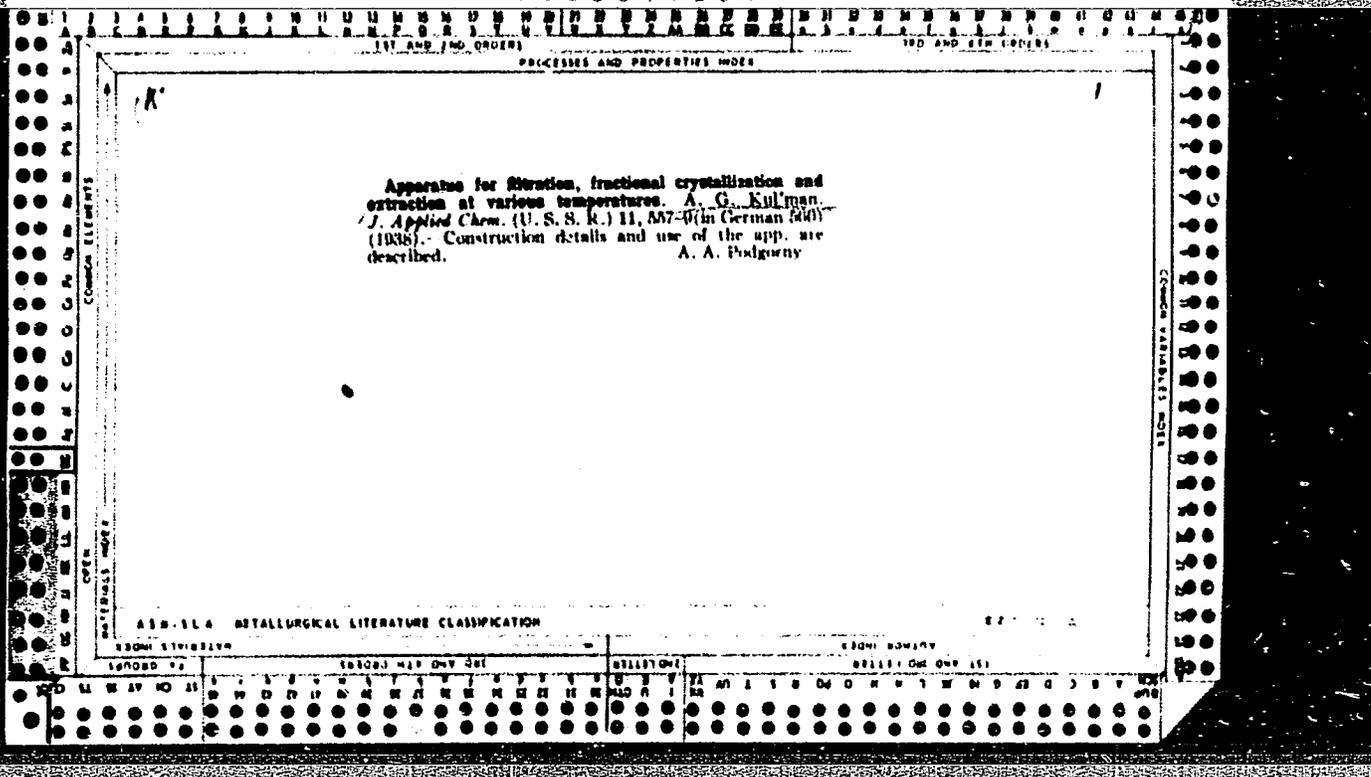
B-T-1

Rapid determination of moisture. A. G. KULMAN (Zavod. Lab., 1938, 7, 1436-1437).—15—20 ml. of cotton or sunflower-seed oil, or of melted paraffin wax, are heated at 190—200° for 2 hr., cooled, and about 5 g. of the material under examination are added. The temp. is maintained at 165° for 3 min., and the oil + material are reweighed; the loss in wt. gives the H₂O content of the material. R. T.

ASB-34 METALLURGICAL LITERATURE CLASSIFICATION

COMMON ELEMENTS
 COMMON VARIABLES INDEX
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 COVER

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CA

PROCESSES AND PROPERTIES INDEX

A new apparatus for accelerated quantitative determination by the gravimetric method. A. G. Kul'man (The Moscow Molotov Inst. for the Mechanization and Electrification of Agriculture). *Zerodskaya Lab.* 11, 001-3 (1945). -- A new app. is described by means of which it is possible to carry out the whole analysis (beginning with sample taking and ending with weighing) in one vessel. The chief part of the app. consists of a vessel with a bottom made of porous glass. The upper part of the vessel is connected with a head through which 2 funnels with stopcocks are inserted. The head is connected to a water suction pump by means of a tube through a 3-way stopcock. The lower part of the vessel is connected by means of a funnel to a Bunsen flask. An inert gas can be passed through the system. Details for the analysis are given. The individual parts of the app. for taking filtrate samples for pptn. at high temps., for analysis of dil. solns., for titration, and for pptn. and titration are described. The app. can be used to det. H_2S^{2-} and SO_3^{2-} as H_2SO_4 ; Ag^+ and Cl^- as $AgCl$; Sb^{3+} , Cu^{++} , Hg^{++} , etc. as their sulfides; Cu as Cu thiocyanate; Ni , Al , and Pb by pptg. with org. reagents; K by pptg. with dipicrylamine or Na cobaltinitrite. 23 references. W. R. Heun

ASSOCIATED METALLURGICAL LITERATURE CLASSIFICATION

COMMON ELEMENTS

MATERIALS INDEX

INDEX

LIBRARY NUMBER

1

11' AND 2ND ORDER 120 AND 4TH ORDER

PRECEDENCE AND PRIORITY INDEX

CA

1

Apparatus for gravimetric determination of the evaporability of liquids. A. G. Kaiman. *J. Applied Chem.* (U.S.S.R.) 18, 379(1945).—A gas-washing bottle with a sintered glass disk is recommended for reproducible detns. of the evaporability of liquids. Oscar W. Bauer

Common Elements

Common Variables Index

ASM-61A METALLURGICAL LITERATURE CLASSIFICATION

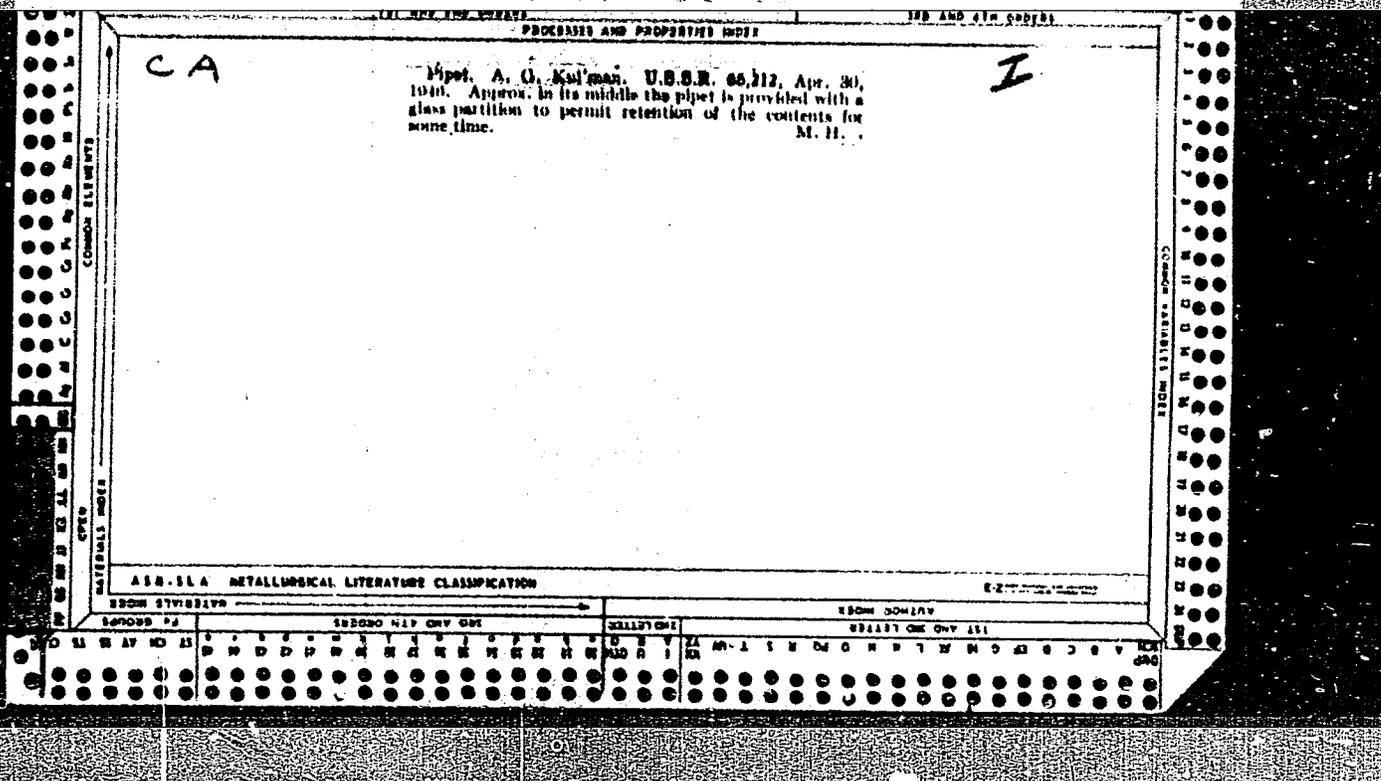
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Cyr. 4QD53

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"Change in the Quality of rye flour during Storage," Dok. AN, 58, No.9, 1947.

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Vol. 48
Apr. 10, 1954
Foods

Investigation of colloidal and chemical properties of bread baked by electric current. A. G. Kul'man and R. A. Branopol'skaya. *Ukrain. Khim. Zhur.* 16, No. 3, 457-60 (1950).—The dough is exposed to a.c. which develops enough heat to bake it. The temp. within the whole loaf remains the same, so that the colloidal properties of bread are the same throughout the whole loaf. To bake, the potential can be changed, whereby the current remains the same, or the potential can be kept constant, thus causing the changes in current due to various processes in the dough. Baking time is decreased considerably. The colloidal properties of rye and wheat bread baked to different degrees both by the regular and elec. method are investigated. The relation between the potential and temp. in bread baked by elec. current is established. During the process of change from dough to bread the ability of bread colloids to bind water decreases, owing to adsorption and osmotic processes taking place. The regularity of change of colloidal properties in both regular and elec. baking is analogous. A specific property of the bread baked by elec. current is the ability to produce foam in their aq. exts. and the stability of this foam with respect to time. This indicated that the heating of dough by elec. current is not identical with the heating in regular baking process.
V. Mihajlov.

KUL'MAN, A.G., professor.

[General and inorganic chemistry] Obshchaya i neorganicheskaya khimiya. 5.
perer. izd. Moskva, Gos. izd-vo sel'khoz. lit-ry, 1952. 422 p. (MLBA 6:5)
(Chemistry)

KUL'MAN, A.G., professor, doktor khimicheskikh nauk; REBINDER, P.A.
redaktor

[Colloids in bread baking] Kolloidy v khlebopshchenii. Pod red.
P.A.Rebindera. Moskva, Izd-vo Pishchepromizdat, 1953. 246 p.
[Microfilm] (MIRA 7:6)
(Bread) (Colloids)

KUL'MAN, A.G., professor.

Presentation of the concepts of atomic and molecular masses.
Khim. v shkole 9 no.6:67-69 N-D '54. (MLRA 8:1)
(Chemistry--Study and teaching)

KUL'MAN, Avgust Gustavovich; KAPLAN, G.D., redaktor; BALLOD, A.I., tekhnicheskiy redaktor.

[Collection of problems and exercises in chemistry] Sbornik zadach i uprazhnenii po khimii. Moskva, Gos. izd-vo selkhoz. lit-ry, 1955.
167 p. (MIRA 9:4)

(Chemistry--Problems, exercises, etc.)

PHASE I BOOK EXPLOITATION 631

Kul'man, Avgust Gustavovich

Fizicheskaya i kolloidnaya khimiya (Physical and Colloidal Chemistry)
2d ed., rev. and enl. Moscow, Pishchepromizdat, 1957. 412 p.
10,000 copies printed.

Ed. (title page): Rebinder, P.A., Academician. Ed. (inside book):
Belikova, L.S. Tech. Ed.: Chebysheva, Ye.A.

PURPOSE: This manual is intended for students specializing in technology
at the technical schools (tekhnikums) of the food industry and for workers
of the food industry.

COVERAGE: This book covers the field of physical chemistry and colloidal
chemistry according to requirements for secondary technical schools.
The text is made easier by the introduction of numerous tables, diagrams,
graphs, and illustrations. The needs of food technologists are taken
into consideration.

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Card 4/4

AUTHOR:

Kul'man, A.G., Professor, Doctor of Chemical Sciences

SOV-3-58-8-4/26

TITLE:

The Role of Chemical Engineering Rises (Vozrastayet rol' inzhenernoy khimii)

PERIODICAL:

Vestnik vysshey shkoly, 1958, Nr 8, pp 20 - 22 (USSR)

ABSTRACT:

The May Plenum of the TsK KPSS has set goals in the field of chemistry, which make it necessary for the higher school instructors to study the entire system of training vtuz students in chemistry. The problem of so-called chemical engineering has been studied for some time. Great experience in this field has been gained by the chairs of chemistry of such Moscow vtuzes as the MVTU imeni Bauman, the Moskovskiy institut inzhenerov zheleznodorozhnogo transporta (Moscow Institute of RR Engineers), The Power Engineering, the Aviation, the Highway and other institutes. However, the work of these chairs has not become widely known to pedagogical circles. The number of textbooks on general chemistry is far too small. N.L. Glinka's has won wide recognition, and in 1957, the valuable textbook of M.K. Strugatskiy and B.P. Nadeinskiy was published. But these books are insufficient. The country's vtuzes are usually divided into 2 groups - chemical

Card 1/2

The Role of Chemical Engineering Rises

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and non-chemical. The author says that it is necessary to divide them into 3 categories: 1) chemical, 2) technological and biological, 3) vtuzes of an engineering-mechanical type. While the first two categories are supplied with a good program and good teaching aids, the vtuzes of the engineering type still need special programs, textbooks, problem books and books for laboratory use. The author speaks of an under-rating of the role of chemistry at the engineering vtuzes, and considers the article of Professor I.N. Putilova and Docent G.A. Raytsyn in Nr 7 of this periodical, to have been published at the proper time. There is 1 Soviet reference.

ASSOCIATION: Moskovskiy institut mekhanizatsii i elektrifikatsii sel'skogo khozyaystva (Moscow Institute of Agricultural Mechanization and Electrification)

Card 2/2

KUL'MAN, Avgust Gustavovich; REBINDER, P.A., akademik, retsenzent;
GLADILOVICH, B.R., dots., retsenzent; TRAVITSKAYA, E.O.,
dots., retsenzent; OZEROV, V.N., red.; CHELYSHKIN, Yu.I.,
red.; DEYEVA, V.M., tekhn. red.; BALLOD, A.I., tekhn. red.

[General chemistry] Obshchaia khimiia. Moskva, Izd-vo sel'khoz.
lit-ry, zhurnalov i plakatov, 1961. 566 p. (MIRA 14:12)
(Chemistry)

KRIVOV, A.A.; GAPONENKO, I.M.; USENKO, S.F., uchitel'; KUL'MAN, A.G., prof.

Editor's mail. Khim. v shkole 17 no.3:82-83 My-Je '62. (MIRA 15:6)

1. Pedagogicheskiy institut, g. Daugavpils, Latvyskaya SSR (for Krivov). 2. Besedinskaya srednyaya shkola, Kurskaya oblast' (for Usenko).

(Chemistry)

KUL'MAN, Avgust Gustavovich; REBINDER, P.A., akademik, red.;
VOYKOVA, A.A., red.; ZARSHCHIKOVA, L.N., tekhn.red.

[Physical and colloid chemistry] Fizicheskaia i kol-
loidnaia khimii. Izd.3, perer. Moskva, Pishcheprom-
izdat, 1963. 503 p. (MIRA 17:2)

KUL'MAN, A.G., prof. (Moskva)

On G.P.Khomchenko's article "Coordination between teaching of chemistry in secondary schools and in institutions of higher learning." Khim. v shkole 18 no.3:70-71 My-Je '63. (MIRA 16:9)
(Chemistry--Study and teaching)

KUL'MAN, A.G., prof.

Consultation. Khim. v shkole 18 no.6:86-87 N-D '63.

(MIRA 17:1)

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red.

[Collection of problems in general chemistry] Sbornik zadach po obshchei khimii. Moskva, Vysshiaia shkola, 1965. 231 p.
(MIRA 18:11)

KUL'MAN, I.

Introduce a marking system for trucks pulling trailers. Avt.
transp. 32 no.1:33 Ja '54. (MIRA 7:8)
(Signals and signaling, Automobile)