

S/089/62/012/004/002/014  
B102/B104

Calculation and simulation ...

are fed into the second one which simulates thermal-neutron diffusion. For determining the minimum critical fuel mass, the function

$$\psi(x) = -1 + \frac{\eta}{\sqrt{4\pi\tau}} \int_{-1}^{+1} \psi(\alpha) e^{-\frac{(x-\alpha)^2}{4\tau}} d\alpha. \quad (11)$$

is used; in this case, the moderator density  $n_{\tau=\tau_t} \sim n_{\tau=0} \sim \psi(x)$ ;

$\psi = (T_0 - T)/T$ ,  $k = \eta\psi/(\psi+1)$ ;  $T_0$  is the life-time of thermal neutrons in the reflector,  $\eta$  is the mean number of secondary neutrons per thermal neutron absorbed by the fuel;  $\sqrt{\tau}$  is the moderation length,  $\tau_t$  the thermal neutron age; all the parameters of the dimension of a length are taken as dimensionless. Calculations of the critical fuel mass  $\int \psi dx$  in age and two-group approximations are compared (Table 1). For thermal-neutron density smoothing by an additional absorber,

$$\frac{T}{T_0} = \frac{1}{1 + \frac{\Sigma_{af}}{\Sigma_{a3}} + \frac{\Sigma'(r)}{\Sigma_{a3}}} = \frac{1}{1 + \psi + \nu(r)}, \quad (12)$$

Card 2/4

Calculation and simulation ...

S/089/62/012/004/002/014  
B102/B104

is used, where the sought function  $y(\vec{r}) = \frac{\Sigma'(r)}{\Sigma_{a3}}$  is proportional to the density of the additional absorber whose absorption cross section is  $\Sigma'(r)$ .  $\frac{\Sigma_{ar}}{\Sigma_{a3}} = \psi$ , the macroscopic absorption cross section ratio of fuel and moderator. In two-group approximation  $f(y) = \frac{2}{\eta} \left[ y(\vec{r}) + \frac{\psi+1}{\psi} \right]$ ; the analytic form of  $f(y)$  and the criticality conditions are calculated in age and two-group approximations for a plane, a cylindrical, and a spherical reactor. From a comparison of the results it may be seen that the age approximation is well usable, and that neutron density smoothing problems lead to heat-conduction-type equations solvable by static integrators. There are 5 figures, 2 tables, and 15 references: 7 Soviet and 8 non-Soviet. The four most recent references to English-language publications read as follows: G. Goertzel. J. Nucl. Energy, 2, No. 3, 193, 1956; J. Wilkins. Nucl. Sci. Engng, 6, No. 3, 229, 1959; J. Ravets, J. Lamarsh. Nucl. Sci. Engng, 7, No. 6, 496, 1960; M. Duret, W. Henderson. Nucleonics, 16, No. 11, 168, 1958. ✓

Card 3/4

KUBYSHTA, N.N.

Seedling planter with furrow plow. Sel'khoz mashina no.12:22-23  
D '53. (MIRA 6:12)  
(Agricultural machinery)

KURYSHTA, N.H.

The SLH-1, SLH-2, and ZSLH-1 tree planting machines. Biol. tekhn.-  
ekon. inform. no.8:67-69 '58. (MIRA 11:10)  
(Tree planting)

KUBYSHTA, N.H., insh.

Mounted tree-planting machine. Trakt. i sel'khoz mash. no.11:35-36  
N '59. (MIRA 13:3)

1. Spetsial'noye konstruktorskoye byuro zavoda "Krasnyy Aksay".  
(Planters (Agricultural machinery))

KUBYSHTA, N.N.

The OVG-1 gas-actuated sprayer for vineyards. Biul.tekh.-ekon.  
inform. no.3:54-55 '61. (MIRA 14:3)

(Spraying and dusting equipment)

KUBZ, A.

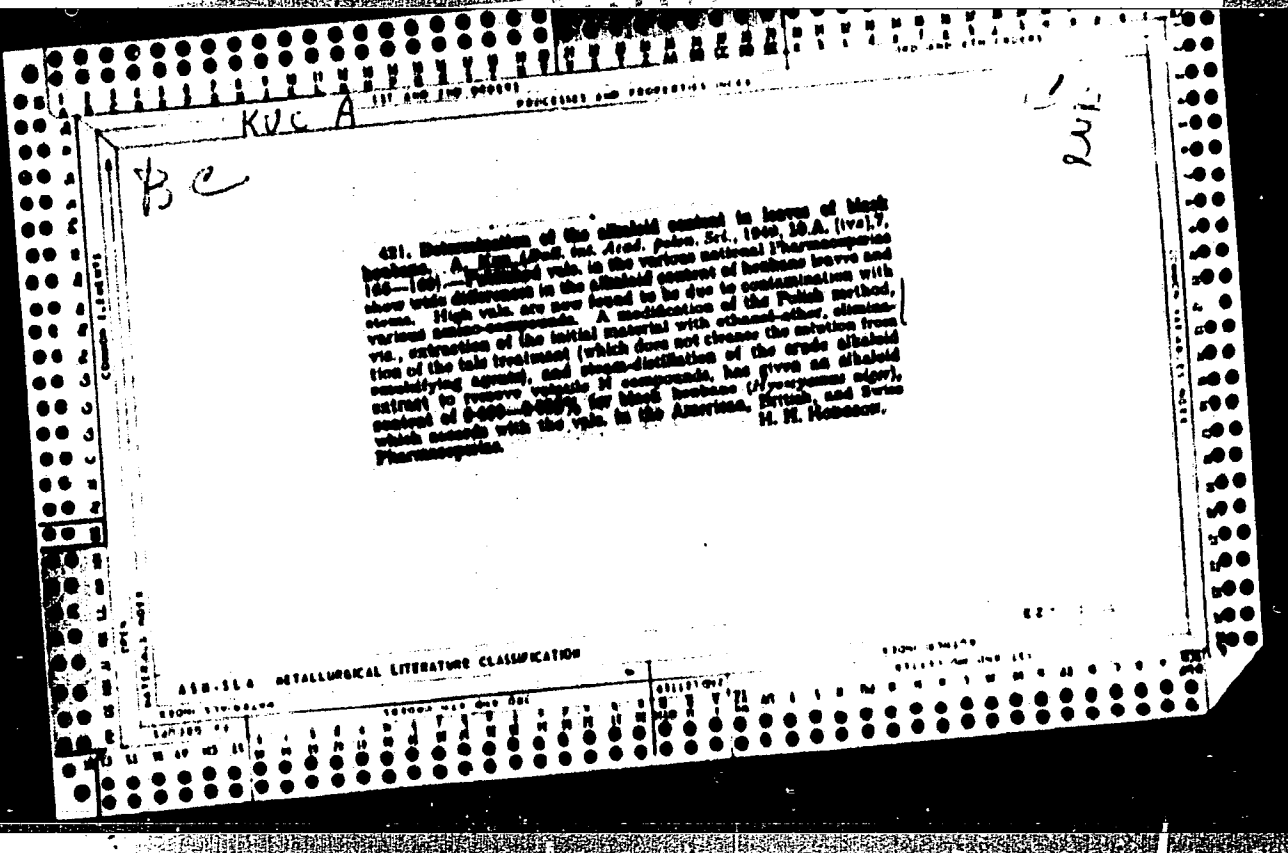
"Automatization of Rolling Mills by Means of Rotation Regulators." p. 151 (Hutnik,  
Vol. 3, no. 7/8, Aug. 1953, Praha)

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

C.A. KUC, A.

Changes in plant cells during drying. D. Kasperowicz  
and A. Kuc. *Polish Abstr. Unif. Pharm. Prace Kom.*  
*Yask. Farmaceut. Dissertations Pharm.* 1, 153-64  
(1940).—Medicinal plants useful in the prepn. of drugs  
are used almost exclusively in dried form. In studying the  
effect of drying upon some of these plants, it was found  
that the dried plants were composed almost entirely of  
dead cells. Consequently, the physiological active in-  
gredients of dried plants may be different from those of  
fresh ones, since the latter may be decompd. by enzymes  
over which the cytoplasm has lost its control. The only  
raw plant material whose medicinal active ingredients re-  
main unchanged to a large extent during drying are seeds.  
The methods of drying of individual medicinal plants will  
be studied in greater detail, in order to det. the optimum  
conditions for the preservation of the vitality of their  
cells.  
Edward A. Ackermann





CA Kuc, A.

*Pharmaceutical chemistry  
Perfumery*

✓ A method for determination of alkaloids in the leaves of *Hyoscyamus niger*. A. Kuc (Z. Zakładu Farm. Stowarz. Akad. Med., KRAKÓW, Poland). *Polish Abstr. (Imięjowski, Proc. Kom. Nauk Farm., Dissertationi Pharm. 3, 33-70(1951)(French summary).—See C.A. 45, 1950a.*  
L. J. Piotrowski

KUC, Marian

A contribution to studies of the bryoflora of the Vihorlat Mountains.  
Biologia 15 no.12:918-120 '60. (KEAI 10:8)

1. Ustav botaniky Polskej akademie vied, Krakow.  
(CZECHOSLOVAKIA--MOSES)

KUC, Stanislaw

The longwall mining system with hydraulic filling and simultaneous working of three layers. Wiadom gorn ll no. 7,8:239-246 J1-Ag '60.

KUC, Stanislaw

Fires in thick coal deposits worked layer by layer with liquid filling. Wiadom gorn 12 no.9:288-294 S '61.

KUC, Zdzislaw

A central medical center for miners under construction.  
Wiodom gorn 10 no. 4:150-151 Ap '59.

KUC, Zdzislaw

Achievements of People's Poland during its 15 years of existence.  
Wiadom gorn 10 no. 7/8:221-223 J1-Ag '59.

RABSZTYN, Jerzy, doc. mgr.inz.; KUC, Edzislaw

Resolution of the Presidium of the Main Administration of the Trade Union of Miners and the Presidium of the Main Administration of the Association of Mining Engineers and Technicians concerning further widening of collaboration and more participation of the Trade Union of Miners and the Association of Mining Engineers and Technicians in the realization of planned technical progress, increase of labor productivity, decrease of costs, and the perfection of qualifications of the working staffs in the Polish mining industry. Wiadom. gorn. 14 no.9: 265-267 S'63

1. Wiceprezes Zarzadu Glownego Stowarzyszenia Inzynierow i Technikow Gornictwa (for Rabszyn). 2. Sekretarz Zarzadu Glownego Zwiazku Zawodowego Gornikow w Polsce (for Kuc).



KUC, Zdzislaw

Common cause. Przegl techn 84 no.51:10 22 D'63.

1. Sekretarz Zarzadu Glownego Związku Zawodowego Gornikow.

Chemical Abst.  
Vol. 48  
Apr. 10, 1954  
Inorganic Chemistry

Structure and decomposition of mercurous acrylate.  
Jaroslav Malý and Libor Kufcák (Vysoká Škola, Brno,  
Czech.) *Chem. Abstr.* 47, 1165-6 (1954) by the  
Fourier analysis of contiguous arms, interatomic distances in  
the mol.  $Hg_2C_2$  were calcd.: C-C 1.19  $\pm$  0.02 Å; C-Hg  
2.17  $\pm$  0.02 Å. Thermal decompn. of  $Hg_2C_2$  gives  
"amorphous" carbon of graphite structure. It is suggested  
that the explosiveness of  $Hg_2C_2$  is caused by a sudden lengthen-  
ing of C-C bond, which gives a shock to the neighboring  
molecules.

E. H. Rife

①

Category : CZECHOSLOVAKIA/Atomic and Molecular Physics - Physics of the molecule D-2

Abs Jour : Ref Zhur - Fizika, No 1, 1957, No 779

Author : Maly, Jaromir, and Kma, Libor

Title : Calculation of the Potential-Energy Constants of  $\text{COCl}_2$ ,  $\text{COF}_2$ , and  $\text{COFCl}$ .

Orig Pub : Ceskosl. casop. fys., 1954, 4, No 6, 638-645

Abstract : The El'yashevich-Stepanov method (Vol'kenshteyn, M.V. Kolebaniya Molekul /Oscillations of Molecules/, I. Moscow, Gostekhizdat, 1949) is used to compute the oscillation frequencies of  $\text{COCl}_2$  (I),  $\text{COF}_2$  (II) and  $\text{COFCl}$  (III) from values of the potential-energy constants ( $K_{ij}$ ). A  $\text{C}_{2v}$  symmetry was assumed for I and II and a  $\text{C}_s$  symmetry was assumed for III in the calculation of the kinematic coefficients.

Card : 1/1

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CIA-RDP86-00513R000827020014-7"

KUCA, Libor; BOROVANSKY, Alois; SEKERA, Ales

Glucochloralose. 3. Determination of  $\beta$ -glucochloralose in the presence of  $\alpha$ -glucochloralose by spectrophotometry in the infra-red region. Cesk. farm. 4 no.8:412-414 Oct 55.

1. Z Ustavu pro chemii farmaceutickou Masarykovy university v Brne.

(HYPNOTICS AND SEDATIVES

$\alpha$ - &  $\beta$ -glucochloralose determ. by spectrophotometry in infra-red region)

(SPECTROPHOTOMETRY

determ. of  $\beta$ -glucochloralose in presence of  $\alpha$ -glucochloralose in infra-red region)

(INFRA-RED RAYS

spectrophotometric determ. of  $\beta$ -glucochloralose in presence of  $\alpha$ -glucochloralose)

Z/038/62/000/008/007/007

AUTHOR: Kuča, LiborTITLE: Pu<sup>IV</sup>-extraction with  
aliphatic ketones

PERIODICAL: Jaderna Energie, no. 8, 1962, 286

TEXT: The extraction capacity of some aliphatic ketones with direct and branched chain for Pu<sup>IV</sup> was investigated. The extraction was carried out using following compounds: methyl-n-propylketone, methyl-n-butylketone, methyl-isobutylketone, methyl-tert, butylketone, methyl-n-amylketone, methyl-n-hexylketone, ethyl-n-butylketone, and di-n-propylketone, in solutions with starting concentrations 0,3 N - 8 N of HNO<sub>3</sub> in the aqueous phase. Factors influencing the extraction efficiency of ketones are of several types. The extraction efficiency of ketones of the same structural type decreases with the increasing length of the chain. The Pu<sup>IV</sup>-extraction with branched chain ketones is worse than with isomeric ketones with direct chain.

Card 1/2

Z/038/62/000/008/007/007

## Pu/IV-extraction with aliphatic ketones

Methyl-n-alkylketones are the most efficient extractants between isomeric compounds. The extraction efficiency of ketones is discussed from the point of view of steric and inductive influence of the side chain on the oxygen atom of carbonyl group. The mechanism of the Pu/IV-extraction with methyl-isobutylketone was investigated in more details. Pu/IV is extracted from 1,5 N HNO<sub>3</sub> into the organic phase mostly in the form of Pu(NO<sub>3</sub>)<sub>4</sub>. The ration of acidocomplexes in the organic phase increases with increasing acidity. The organic phase contains only H<sub>2</sub>Pu(NO<sub>3</sub>)<sub>6</sub> in the extraction from 6 N HNO<sub>3</sub> and the corresponding aqueous phase contains partly dissociated HPu(NO<sub>3</sub>)<sub>5</sub> and H<sub>2</sub>Pu(NO<sub>3</sub>)<sub>6</sub>. The Report of the Inst. Nucl. Res./UJV No. 642. [Submitted to the journal Coll. Czech. Chem. Communications.]

Card 2/2

KUCA, L.

Plutonium (IV)-extraction by aliphatic ketones from nitrate containing medium. Coll Cz chem 27 no.10:2372-2379 0 '62.

1. Institut für Kernforschung, Tschechoslowakische Akademie der Wissenschaften, Rez bei Prag.



KUCA, Libor

Application of the Taft linear relationship to the correlation of extraction ability of neutral organic phosphorus compounds. *Jaderna energie* 9 no.5:167-168 My '63.

1. Ustav jaderného výzkumu, Československá akademie věd, Řež u Prahy.

SECRET 100-445814-27/SP1(2)-27/SP1(2)/SP1(2)



KUCA, Libor

Cost of burnt-out nuclear fuel reprocessing. Jaderna energie  
10 no. 3:88-89 Mr '64.

J. Nuclear Research Institute, Czechoslovak Academy of Sciences,  
Rez.

KUCA, L.

Use of empirical relations for the correlation of the extraction capacity of neutral organic phosphorus compounds. Coll Cz Chem 29 no.2:325-335 F '64.

1. Nuclear Research Institute, Czechoslovak Academy of Sciences, Rez near Prague.

1977, libo-

Extraction of metallic ions by organic solvent mixtures. Chem  
listy 58 no. 7 1977 J1 100.

1. Institute of Nuclear Research, Czechoslovak Academy of Sciences,  
Rez near Prague.

KUCA, L.

CZECHOSLOVAKIA

KUCA, L

Institute of Nuclear Research, Czechoslovak Academy  
of Sciences, Rez near Prague

Prague, Collection of Czechoslovak Chemical Communications,  
No 10, October 1966, pp 4064-4071

"Extraction of Pu(IV) with trihexylphosphin oxide and a  
mixture of Di-n-butylphosphoric acid and trihexylphos-  
phin oxide."

CZECHOSLOVAKIA

KUCA, L

Institute of Nuclear Research, Czechoslovak Academy  
of Sciences, Prague-Rez

Prague, Collection of Czechoslovak Chemical Communi-  
cations, No 1, January 1967, pp 288-297

"Mixed complexes of di-n-butylphosphoric acid with  
tributyl phosphate and trihexylphosphine oxide."



CZECHOSLOVAKIA

KUCA, L

Institute of Nuclear Research, Czechoslovak Academy  
of Sciences, Prague-Rez

Prague, Collection of Czechoslovak Chemical Communi-  
cations, No 1, January 1967, pp 298-310

"Extraction of Pu(IV) with di-n-butylphosphoric acid  
from nitrate and perchlorate solutions."

CZECHOSLOVAKIA

KUCA, L

Institute of Nuclear Research, Czechoslovak Academy  
of Sciences, Prague-Rez

Prague, Collection of Czechoslovak Chemical Communi-  
cations, No 2, February 1967, pp 720-728

"Hydration of the organic phase in extraction of  
uranium with organophosphorus reagents."

CZECHOSLOVAKIA

KUCA, I

Institute of Nuclear Research, Czechoslovak Academy  
of Sciences, Prague-Rez

Prague, Collection of Czechoslovak Chemical Communi-  
cations, No 2, February 1967, pp 729-746

Distribution of di- $n$ -butylphosphoric acid between  
carbon tetrachloride and nitrate or perchlorate solu-  
tions of ionic strength 1 and 6."

KUCA, K.

Commitments of motorists of the Presov region. p. 133.

Reporting our activity from the "Gate of the Czech Land." p. 133.

SVET MOTORU, Praha, Vol. 9, no. 5, Mar. 1955.

SO: Monthly List of East European Accessions, (SEAL), LC, Vol. 4, no. 10, Oct. 1955,  
Uncl.

S/081/63/000/003/031/036  
B144/B166

AUTHORS: Berger, Vladimír, Cejp, Josef, Kuča, Miloslav

TITLE: Weather resistance of Czechoslovakian plywood glues under tropical conditions

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 3, 1963, 604, abstract 3T161 (Dřevo, v. 16, no. 11, 1961, 335-336 [Czech; summaries in Russ. and Ger.] )

TEXT: Results are given which were obtained in a 5-year test of plywood samples bonded with urea (UA) and phenol (PA) adhesives, carried out in Viet Nam (moist tropical climate). The samples were exposed both protected from the direct effect of sun and rain, and unprotected. In the first case, the UA plywood samples (~100% filled with wood flour) had come completely unglued by the end of the period; the UA samples without filler retained only ~30% of their original strength, without protection they had already come unglued after 3 - 12 months' exposition. PA plywoods after 5 years' exposition (protected) lost 8 - 20% of their original strength; without protection 70%. Such a reduction in strength  
Card 1/2

Weather resistance of .....

S/081/63/000/003/031/036

B144/B186

is due, however, mainly to the wood, and to a considerably lesser extent to the glue: not a single case of unglueing was observed in these samples. The conclusion is drawn that for countries with moist tropical climate the plywood should be bonded with FA; the export of UA plywoods into such countries cannot be recommended. [Abstracter's note: Complete translation.]

0:01 2/2

LACAN, M.; KUCAN, B.

A note on the synthesis of 2, 7-dibenzoyl-4,5-benzotropone.  
Croat chem acta 35 no.2:141-142 '63.

1. Laboratory of Organic Chemistry and Technology, Faculty  
of Technology, University of Zagreb, Zagreb, Croatia, Yugoslavia.

S

MILETIC, B.; DENIC, M.; KUCAN, Z.; ZAJEC, Lj.

Effect of ionizing radiations on the metabolism of nucleic acids in  
Escherichia coli. Voj.san.pregl. 18 no.2:143-147 F '61.

1. Institut "Ruder Boskovic" u Zagrebu, Radioloski odjel.

(ESCHERICHIA COLI radiation eff)  
(NUCLEIC ACIDS metab)

KUCAN, Z.; MILETIC, B.; DRAKULIC, M.; ZAJEC, Lj.

Inhibition of protein biosynthesis, and its effect on the  
biosynthesis of desoxyribonucleic acid after X-ray irradiation.  
Bul sc Jug 7 no.1/2:13 F-Ap '62.

1. Institut "R. Boskovic," Zagreb.

\*



KUCAN, Zeljko; MILETIC, Branimir; ZAJEC, Ljerka

Degradation of bacterial desoxyribonucleic acid by the irradiation with x-rays. Vojnosanit. pregl. 18 no.10:847-850 0 '61.

1. Institut "Ruder Boskovic" u Zagrebu, Radioloski odjel.

(DESOXYRIBONUCLEIC ACID chem) (RADIATION EFFECTS)  
(BACTERIA chem)

ENGLEDA, Franjo

Are tuberculosis mortality statistics presented in anti-tuberculosis dispensary annual reports really meaningful? Tuberkuloza 16 no.1:49-51. Ja-F '64.

1. Antituberkulozni dispanzer, Osijek (Sef: dr. Hermina Morot).

KUCANI, Y.

Importance of the accounting technique in construction, p. 15, TEKNIKA,  
(Ministria Industri-Miniera dhe Ndertim-Komunikacion) Tirane, Vol. 3,  
No. 2, Mar./Apr. 1956

SOURCE: East European Accessions List, (EEAL) Library of Congress,  
Vol. 5, No. 12, December 1956

KRACIK, B.; MILIGUI, Z.; HRABEC, V.; VEJS, M.; MASTALKA, A.; KUCAROVA, T.

Copy of Sm<sup>155</sup>. Chekhol fiz zhurnal 13 no.1:79-83 '63.

1. Ustav jaderneho vyzkumu, Ceskoslovenska akademie ved, Res.
2. On leave from the United Arab Republic (for Miligui).

KUCSEL, J.

"Artificial Insemination in the Control of disease in cattle."

Vet: Glasnik 4 : No. 1, pp. 1-14, 1950

KUCERA, A.

Technological plan for forge shops and press shops. p. 245. STROJIRENSKA  
TYZNA. (Ministerstvo strojirenstvi) Praha. Vol. 4, no. 6, June 1956.

SOURCE: East European Accessions List, Vol. 5, no. 9, September 1956

KUCERA, A.

Mechanization of hardening processes.

P. 22. (STROJIRENSKA VYROBA) (Praha, Czechoslovakia) Vol. 6, no. 1, Jan. 1958

SO: Monthly Index of East European Accession (EEAI) 1C Vol. 7, No. 5, 1958

KUCERA, A., inz.

Main trends of further development of optics and fine  
mechanics. Jemna mech opt 9 no. 1:1 Ja '64.



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SECRET

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CIA-RDP86-00513R000827020014-7"

KUCERA, A.

Difference of density of normal and basophilic erythrocytes. Cas.  
lek.cesk. 90 no.3:76-79 19 Jan 51. (CJML 20x6)

1. Of the Institute of Physiology (Head--Prof.Vladislav Kruta,M.D.)  
of the Medical Faculty of Charles University Branch in Hradec Kra-  
lovs.

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KUCERA, Antonin, MUDr (Marianske Lazne)

Indications for organisation of ambulatory care. Acta chir  
orthop Cs 21 no.2:57-58 Ap '54. (EKAL 3:8)  
(OUTPATIENT SERVICE,  
\*in orthopedics)  
(ORTHPEDICS,  
\*outpatient serv.)

BATEK, F.; KUCERA, A.; KUCEROVA, V.; MINARIK, L.

Role of the spleen in interoceptive conditioned blood picture changes in rabbit. Cesk. fysiол. 7 no.5:429-430 Sept 58.

1. Fysiologicky ustav u Ustav organisace zdrvaotnictvi lek. fak. PU, Olomouc.

(BLOOD CELLS,  
count, eff. of splenectomy on conditioned changes in rabbits  
(Cx))  
(REFLEX, CONDITIONED,  
conditioned blood count changes in splenectomized rabbits(Cx))  
(SPLEEN, eff. of excis.  
on conditioned blood count changes in rabbits (Cx))

BATEK, F.; KUCERA, A.; KUCEROVA, V.; MINARIK, L.

Effect of adrenalectomy on the course of interoceptive white and red blood picture changes in rabbits. *Cesk. fysiол.* 7 no.5:431-432 Sept 58.

1. Fysiologicky ustav a Ustav organisace zdravotnictvi lek. fak. PU, Olomouc.

(LEUKOCYTE COUNT,

eff. of adrenalectomy on interoceptive changes in rabbits (Cz))

(ERYTHROCYTES,

count, eff. of adrenalectomy on interoceptive changes in rabbits (Cz))

(ADRENALECTOMY, eff.

on interoceptive erythrocyte & leukocyte count in rabbits (Cz))

KUCERA, ALES, ed.

Navody ke cviceni s prakticke fysiologie. Zpracovali Frantisek Batek  
(et al. 1. vyd.)

Praha, Czechoslovakia. Statni pedagogicke nakl., 1959. 225p.

Monthly List of East European Accessions (EEAI), LC, Vol. 9, no. 2.  
Feb. 1960. Uncl.

KUCERA, A.; BATEK, F.; MINARIK, L.; KUCEROVA, V.

On the effect of pentamethonium on the course interoceptive changes  
of white and red blood pictures in rabbits. Cesk. fysiол. 8 no.5:  
418-419 8 '59

1. Fysiologicky ustav a Ustav organisace zdravotnictvi Lek. fak.  
PU, Olomouc.

(METHONIUM COMPOUNDS pharmacol.)

(ERYTHROCYTE COUNT pharmacol.)

(LEUKOCYTE COUNT, pharmacol.)



KUCERA, A.; BATEK, F.; MINARIK, L.; KUCEROVA, V.

Effect of the pituitary on the dynamics of changes in white blood picture. Cesk. fysiол. 8 no.5:419-420 S '59

1. Fysiologicky ustav a Ustav organisace zdravotnistvi Lek. fak. PU, Olomouc.

(LEUKOCYTE COUNT)  
(HYPOPHISECTOMY eff.)

KUCERA, Leo; LUZA, Jiri

The effect of histamine on the regeneration of the leukocytes after leukopheresis. Stom. ved. prac. lek. fak. Karlov. Univ. 7 no.4:523-529 '64.

1. Fyziologicky ustav Lekarske fakulty Palackeho University, Olomouc (predcasta: doc. MDr. A. Kucera).

CZECHOSLOVAKIA

KUCERA, A., STEIGLOVA, J., LUZA, J; Physiological Institute,  
Medical Faculty, Palacky University (Fysiologicky Ustav Lek. Fak.  
PU), Olomouc.

"Analysis of Inspiration Reflexes Caused by Mechanical Stimulation  
in Pentothalic Apnaic Pause."

Prague, Ceskoslovenska Fysiologie, Vol 15, No 2, Feb 66, p 71.

Abstract: Thiopentalum solubile is a hypnotic with a strong  
initial effect and is used in surgery and obstetrics when muscle  
relaxation is not required. An initial dose of 1.2 cc of a 5%  
solution per kg of body weight causes apnoea. During this state  
every mechanical excitation of the breast causes a breath intake  
and expiration. Intravenous administration of thiopenthal to a  
rabbit causes an expiration apneic pause. Imposed breathing  
persists even when subcutaneous application of procaine is made.  
The resection of nervus vagus does not stop the occurrence of  
imposed breathing in an apneic pause. The origin of this reflex  
action is discussed. 2 Western references. Submitted at the  
"16 Days of Physiology" at Kosice, 29 Sep 65.

1/1

KUCERA, Alois

New cemented carbides in practice. Stroj vyr 11 no.2:76 P '63.

1. Zavod prvni petiletky, n.p., Sumperk.

Category : CZECHOSLOVAKIA/Optics - X-rays

K-8

Abs Jour : Ref Zhur - Fizika, No 1, 1957 No 2570

Author : Kucera, B.

Title : Use of Optics in New Methods of X-Ray Diagnosis

Orig Pub : Jentia mech. a opt., 1956, 1, No 1, 18-20

Abstract : Description of indirect skiagraphy methods and of the corresponding instruments.

Card : 1/1

Kucera, E.

Present trends in the production of artificial fertilizers and plant insecticides in the USSR. P. 97.

Vol. 5, no. 3, Mar. 1955.  
CHEMICKY PRUMYSL

SO: Monthly List of East European Accession, (EEAL), LC, Vol. 4, No. 9, Sept. 1955, Uncl.

BLEKTA, M.; BENDL, J.; KUCERA, E.; GJUNICOVA, J.

Role of nutrition in the prevention of pregnancy complications.  
Cesk.gyn. 25[99] no.3:181-185 1960.

1. II.gyn.por.klin. KU v Praze, prednosta prof.dr. Sc. J. Lukas.  
(PREGNANCY nutrition & diets)

BLEKTA, M.; HENDL, J.; KUCERA, E.; GJURICOVA, Jirina

Preventive effect of nutrition on late gestosis. *Cesk.gyn.* 25  
[39] no.3:198-202 1960.

1. II.gyn.por.klin. KU v Praze, predn.prof. Dr.Sc. Josef Lukas.  
(PREGNANCY TOXEMIAS nutrition & diets.)



LUKASH, I., [Lukas, J.], d-r, prof.; ~~KUCERA, E.~~ [Kucera, E.];  
DIVISH, I. [Divis, J.]

Treatment of inflammatory follicular tumors of the uterine  
adnexae by means of puncture. Akush.i gin. no.1:77-82 '62.  
(MIRA 15:11)

1. Iz 2-y akushersko-ginekologicheskoy kliniki (zav. - prof.  
d-r I.Lukash) pri Universitete v Prage.  
(UTERUS—TUMORS)

TACHEZY, R., doc.; KUCERA, E.

Basal temperature in the climacteric. Cesk. gyn. 27[41] no.4:269-271 My '62.

1. Psychiat. leo. v Bohnicich, reditel MUDr. K. Dobisek II.  
por gyn. klin. KU v Praze, prednosta prof. MUDr. J.Lukas, DrSc.  
(BODY TEMPERATURE physiol) (CLIMACTERIC physiol)

CZECHOSLOVAKIA

GRUBBER, O; HALEK, M; KUCERA, E

Institute of Physical Chemistry, Czechoslovak Academy  
of Sciences, Prague - (for all)

Prague, Collection of Czechoslovak Chemical Communications,  
No 7, July 1966, pp 2629-2638

"Calculation of the mass transfer coefficients by means  
of a more exact theory of gas-solid chromatography. Part 2:  
Variance and asymmetry of the chromatographic curves in the  
system carbon dioxide-activated charcoal."

CZECHOSLOVAKIA

KUCERA, E.; NIKOLAJENKO, V.

Institute for Physical Chemistry, Czechoslovakian Academy of  
Sciences (Institut für physikalische Chemie, Tschechoslovakische  
Akademie der Wissenschaften), Prague (for both)

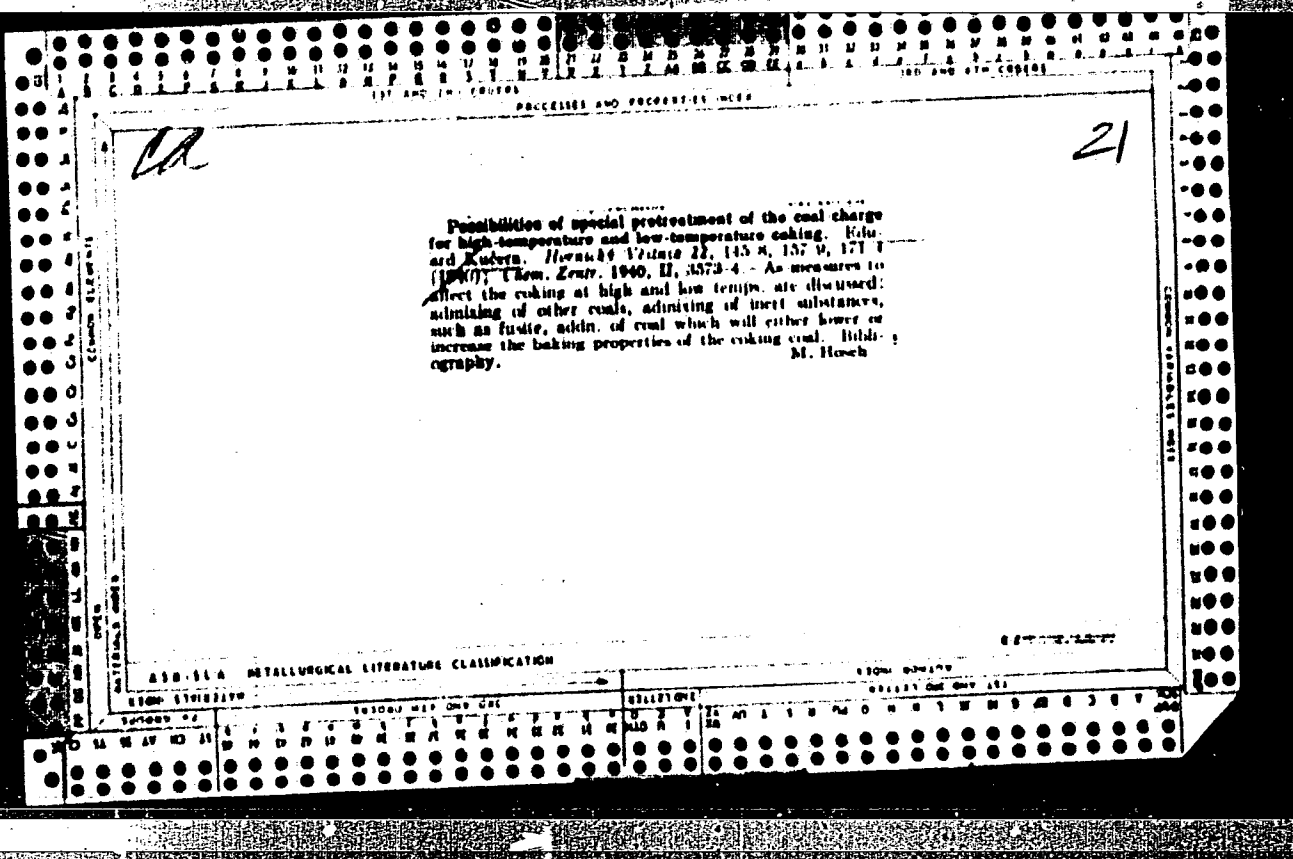
Prague, Collection of Czechoslovak Chemical Communications, No 2,  
Feb 1966, pp 399-405

"Research on the products of the decomposition of mixed oxalates of  
nickel and zinc in a vacuum."

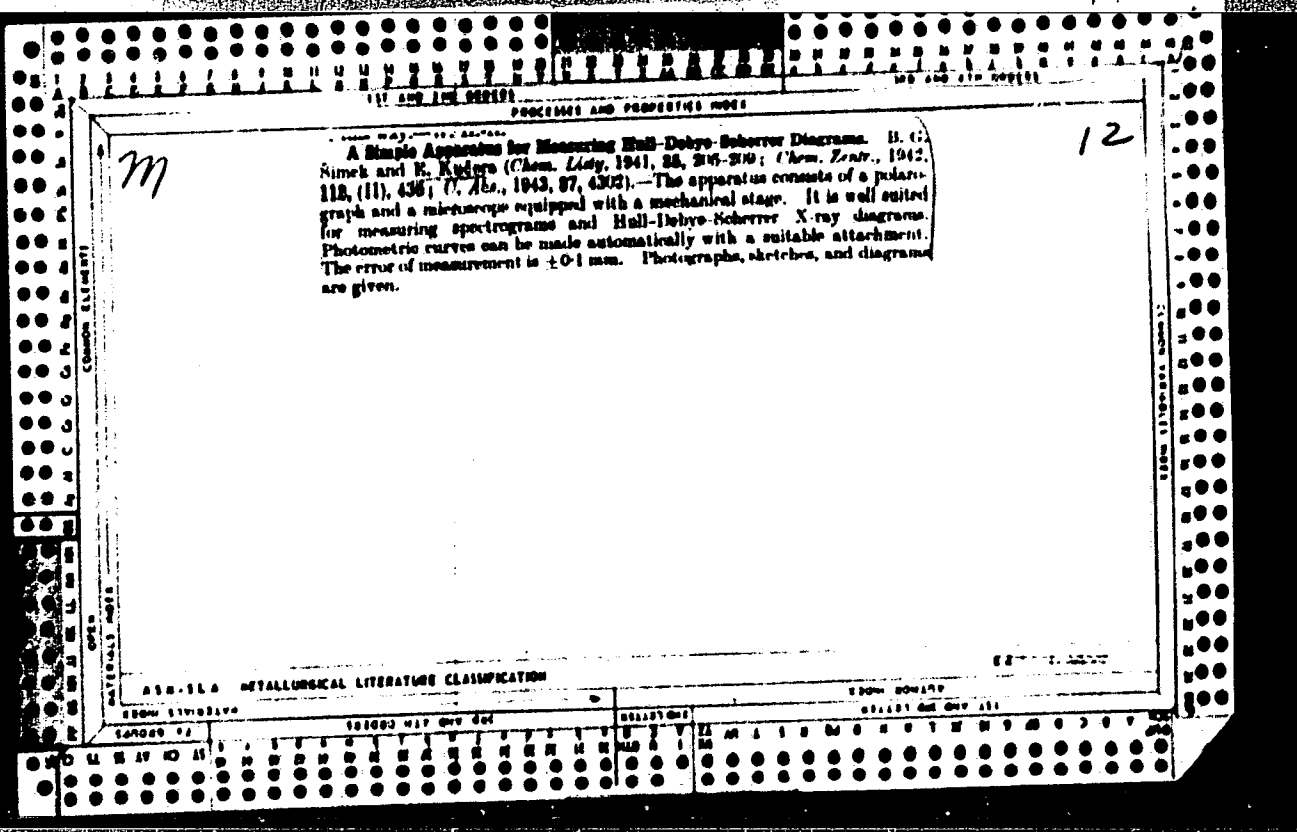
KUČKA, Eduard

Testimony. (then from 14 no. 2, 1964)

1. Spolana National Enterprise, Hradecovice.









PROCESSES AND PROPERTIES WORK

T

**4490. CORRECT TEMPERATURE MEASUREMENTS WITH THERMOCOUPLES.**  
 Kusera, E. (Chemicky Obsor, 1942, 117-122, 136-142, and <sup>Communic.</sup>  
 Coal Res. Inst., Prague, 1948, vol. 4, 208-235).

In notes on the choice of thermocouples and the gauge of the wire the author discusses various errors due to heat conduction through the wires and their resistance. Formulae are given for the calculation of these errors together with tables and graphs to facilitate the calculation. The proposed standardisation of thermocouples is criticised. (L).

METALLURGICAL LITERATURE CLASSIFICATION

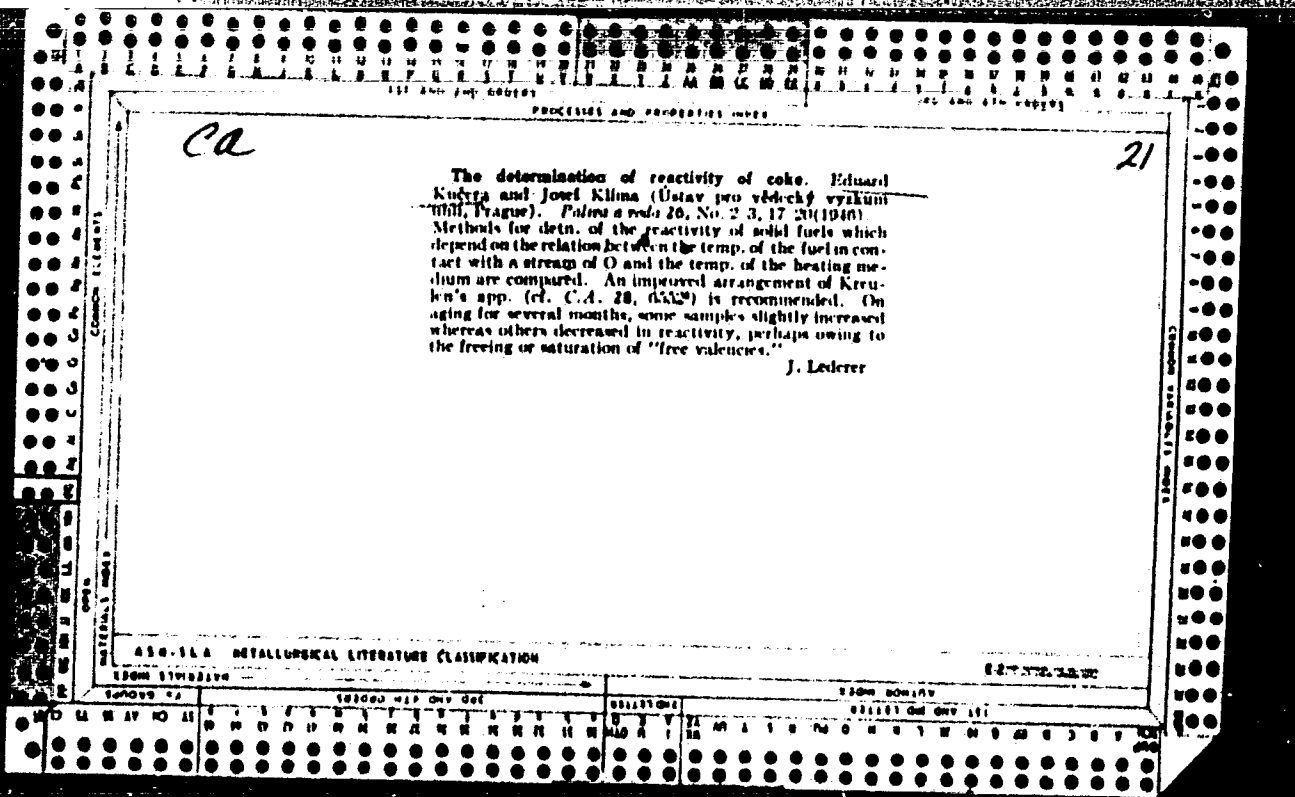
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COLLECTION:

15 14 13 12 11 10 9 8 7 6 5 4 3 2 1



F  
E  
4338. EFFECT OF INORGANIC ADDITIVE ON REACTIVITY OF COKE. Simak, B. B., Kucara, E. and Klima, J. (Paliva a Voda, 1946, 26, 49-55; Chem. Abstr., 1947, 41, 5704).

Coke samples were prepared in a laboratory retort by using various coking conditions, coal blends, and mineral additives, e.g.,  $Fe_2O_3$ ,  $CaO$ , a blend of  $Fe(OH)_3$  and  $Ca(OH)_2$ , magnetite,  $MgO$ ,  $Na_2CO_3$ , Cu ashite, magnesite. The reactivity of the coke was measured by the initial temperature of reaction with  $O$ , observed in a modified Kroulen apparatus. More-active coke was produced by lower coking temperature and more rapid coking; less-active coke, by using coal blends of higher bulk density and by longer maturing time. Mineral additives vary in their effects on the reactivity, and mixtures of mineral substances do not follow the mixing law. Very coarse grain and very fine grain mineral additives decrease the reactivity; coarser grain of the mineral additive increase the initial temperature, on the other hand. Low-ash coal yields coke of higher reactivity.

PROCESSES AND PROPERTIES INDEX

1st and 2nd orders      1st and 2nd orders

21

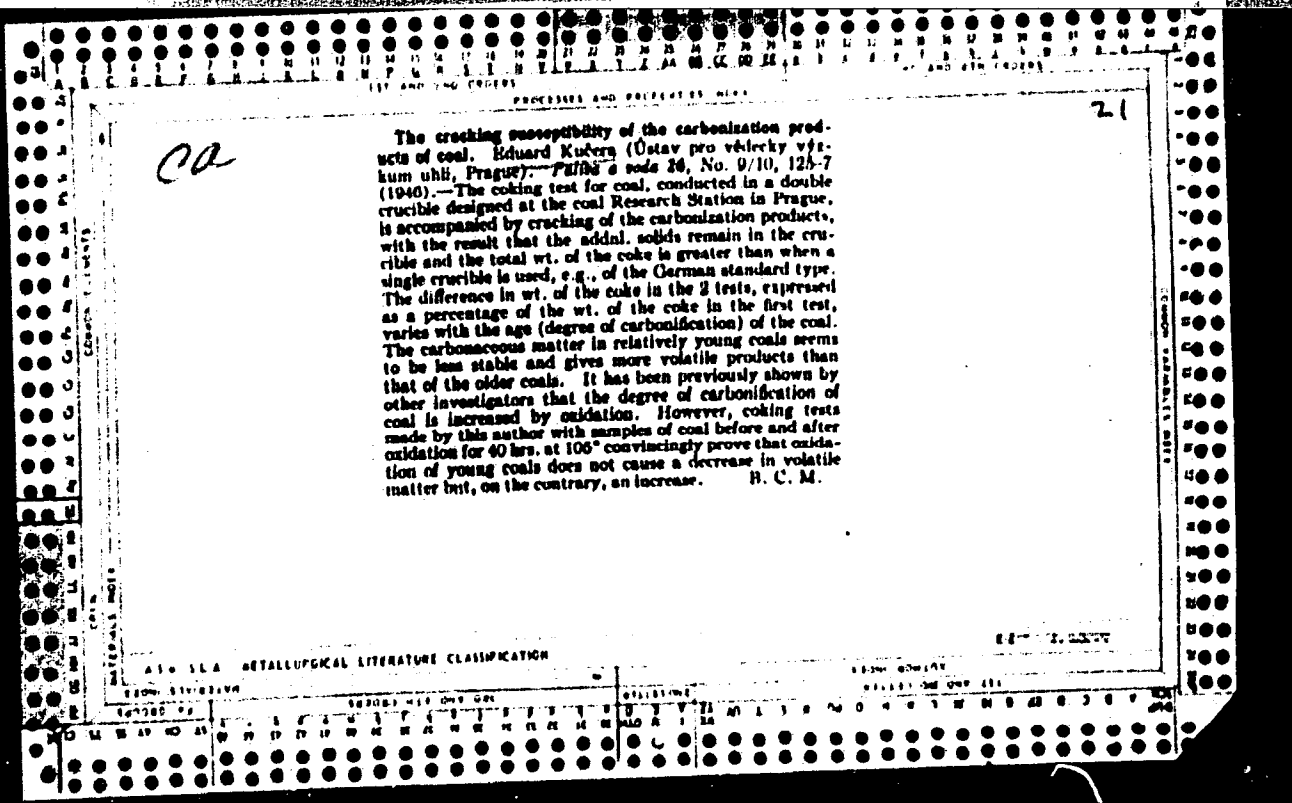
*ca*

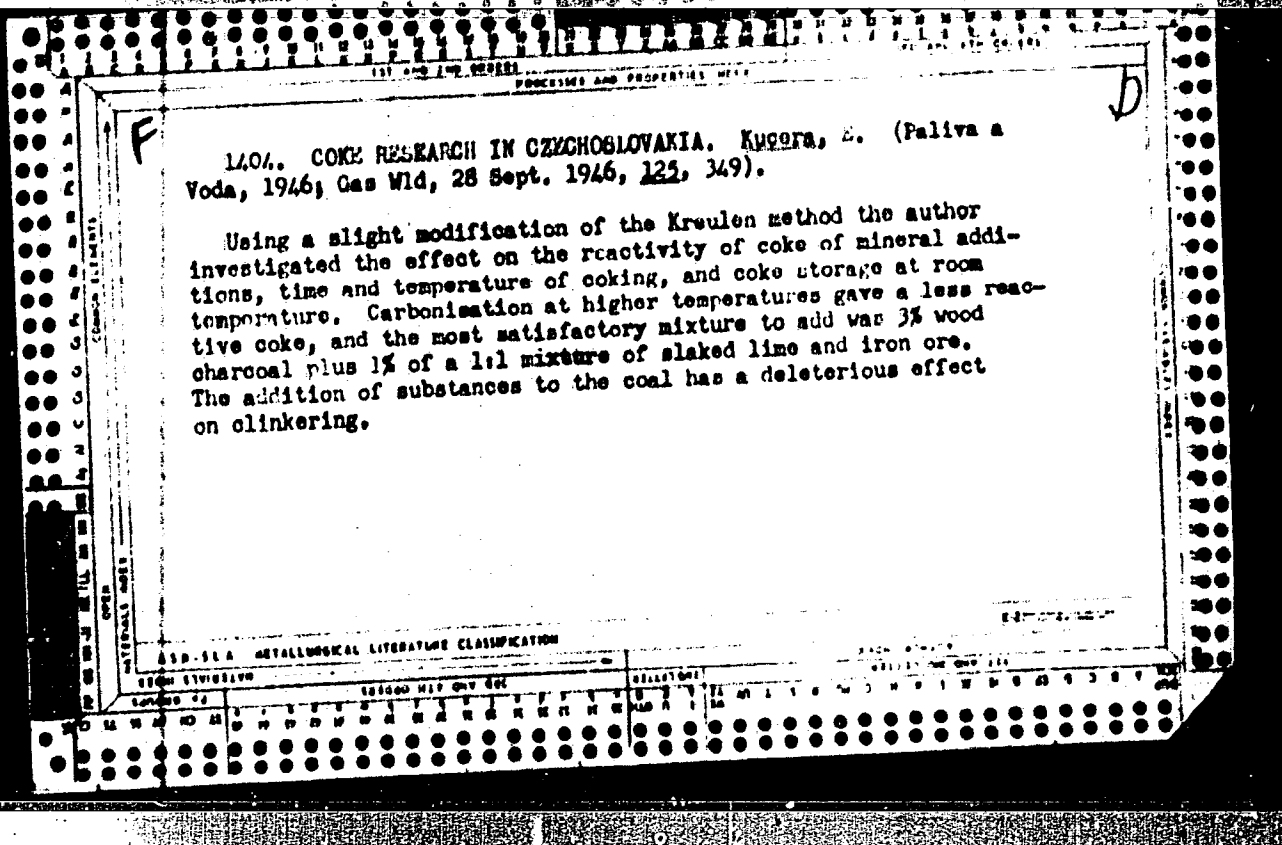
Influence of mineral additions to the fusibility of coke ash. *R. Kubica. Patro a soda 26, 81-3(1946); Chimie & industrie 57, 436(1947).*— The reactivity of the ash cannot be increased nor the fusion curve improved merely by addn. of solid ingredients to the coal before coking; the solids always remain isolated in the coal substances and have practically no influence on the properties of the coke.  
A. Pajdneau Cocture

A.S.M. S.L.A. METALLURGICAL LITERATURE CLASSIFICATION

FROM SYMBLITH      TO SYMBLITH

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
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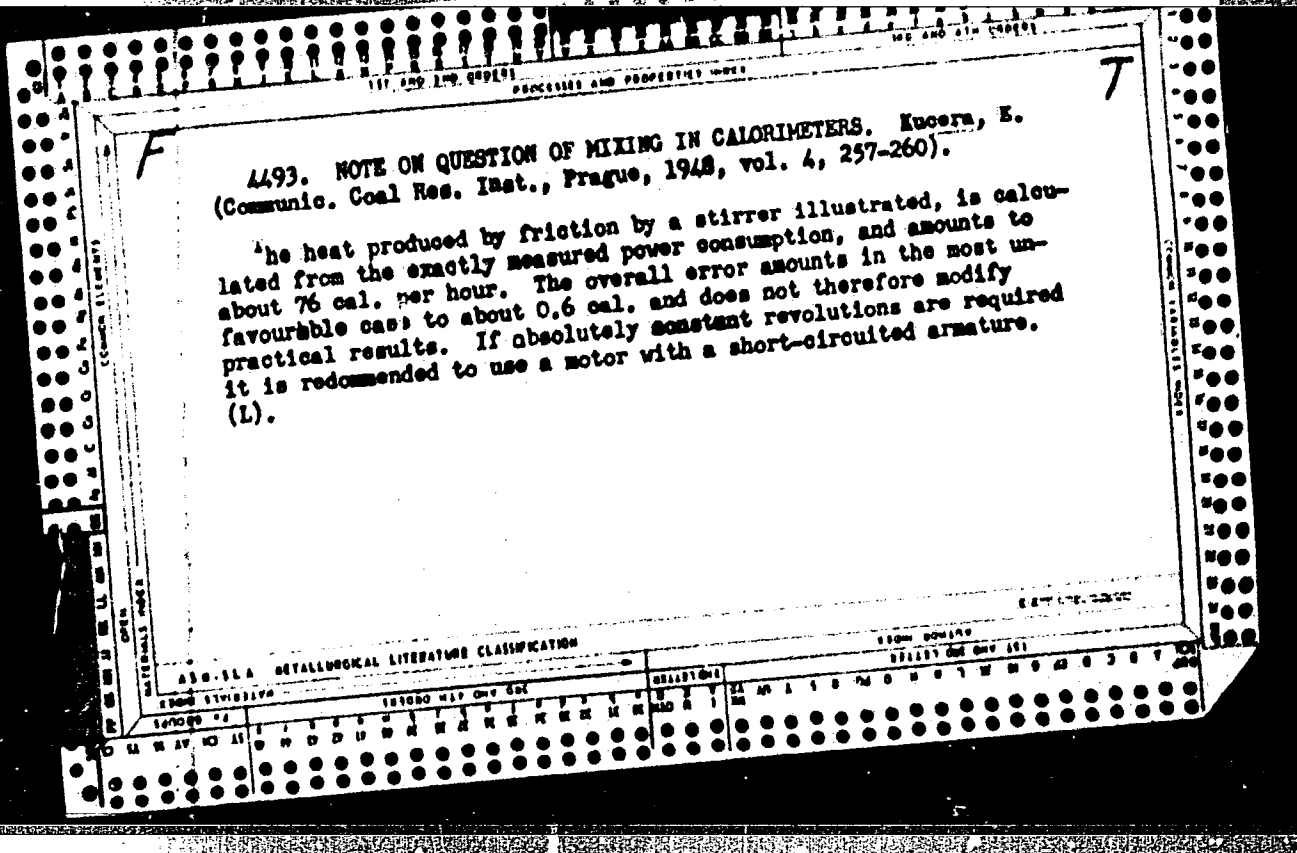


KUCERA, E.

THE CHOICE OF WIRE FOR THERMOCOUPLES. E. Kucera. Zpravy Ustavu  
Vedeck'Y Vyskum Uhlí (Prague) 1948, 235-6 (in English).-The following  
lengths and diams., resp., are suitable for thermocouples of various  
compos.: Ag vs. constantan or Cu vs. constantan 0.5 m., 1.0-2.0 mm.;  
longer, 3 mm.; Ni-Cr vs. constantan or Fe vs. constantan less than 0.5  
m., 1.0-1.5 mm.; Ni vs. Ni-Cr up to 0.2 m., 2 mm.; Pt vs. Pt-Rh--,  
0.5-0.6 mm. J.L.

immediate source clipping

Dp.

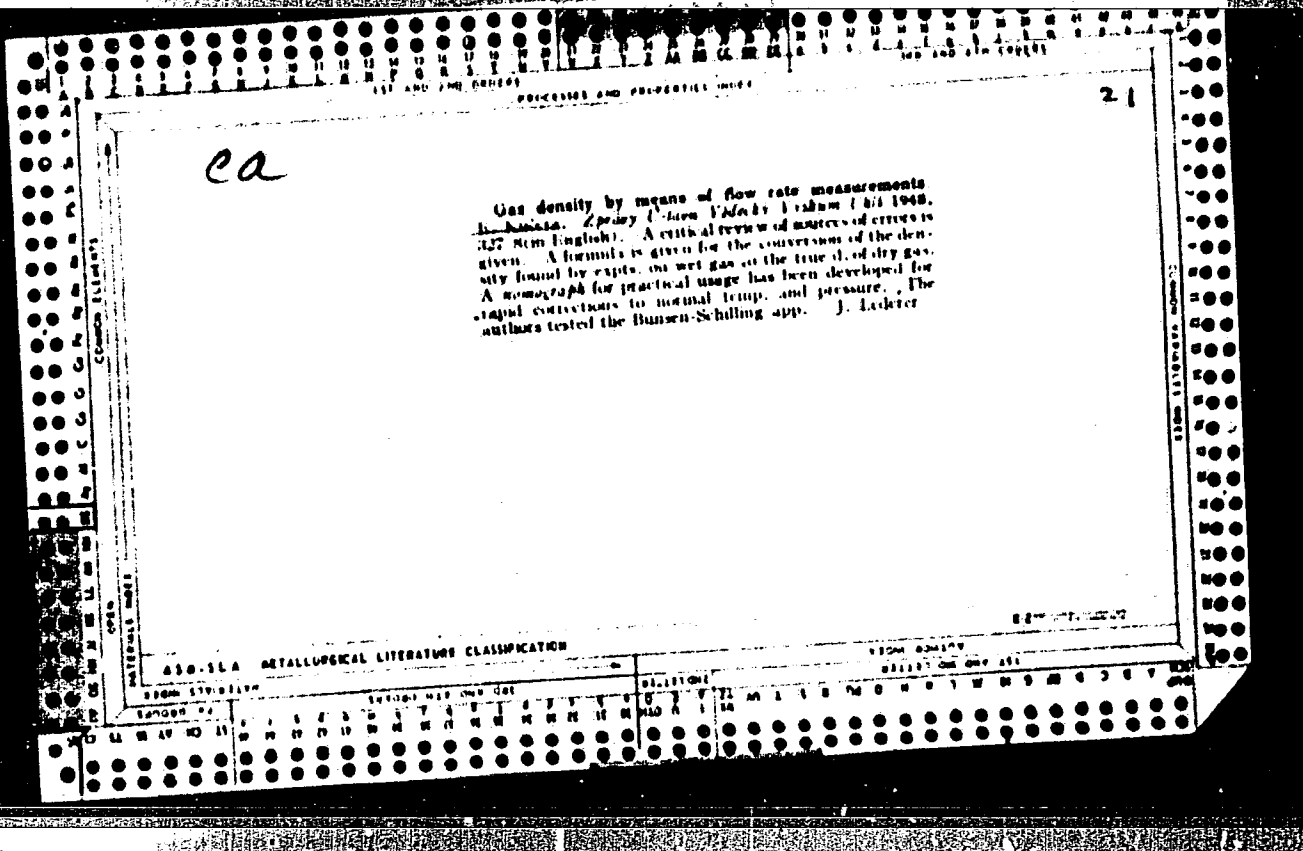




KUCERA, E.

Note on mixing in combustion calorimetry. E. Kucera  
*Zprávy Ústavu Vědecký Výzkum Uhlí (Prague) 1948, 200 (in  
English).*—Several sources of error are enumerated, such  
as heat produced by friction and variation in r.p.m. due to  
line variation or to motor construction. A drawing is  
given of the propeller used, with calens. The heat pro-  
duced by friction is corrected in a blank expt. Line varia-  
tions are eliminated by use of a motor with short-circuited  
armature. Lederer

#2/1/4-7



157 AND 158 (1951)      PROCESSES AND PROPERTIES (157)

21

*pa*

Improved laboratory carbonization test. H. G. Simcik and E. Kuder. *Zprávy Ústav Vádrový Vytahův Uhli* 1948, 338-40 (in English).—The app. is described. The Fischer-Schrader retort was used with addn. and modifications. The paper presents operating data. A charge of 100-150 g. coal is placed in an Al liner which in turn is placed inside a steel retort and Al block. This block is heated with 6 burners. The temp. of the coal charge is measured directly with Ni-NiCr thermocouples inserted into the coal. The distn. products in vapor form enter: (1) a heavy-tar condenser, (2) a light-oil and water condenser with a standard tape cone graduated in ml., (3) a H<sub>2</sub>S and water trap, and (4) a freezing trap. Non-condensable gases are led into a gas holder, stored, measured, and analysed. Heavy-tar condensate is independently heated to 150 ± 2° as measured with thermocouples in the block. H<sub>2</sub>S is removed by passing the vapors through a city-gas-cleaning mass. Residual moisture is removed with CaCl<sub>2</sub>. For sepg. condensable from non-condensable material a liquid-air trap is used. The non-condensable components are passed into a gas holder. The trap is gradually brought to room temp. The crude benzene fractions remain in the trap while CO<sub>2</sub> and C<sub>2</sub>H<sub>4</sub> escape into a gas holder and are detd. there. Two sets of app. are run simultaneously. Good agreement was obtained on % moisture, heavy tar, light tar, and crude benzene, fair on total water, and poor on gaseous components. J. Lederer

ABB-51A METALLURGICAL LITERATURE CLASSIFICATION

157 AND 158 (1951)      PROCESSES AND PROPERTIES (157)

CA  
1931

*Handwritten title:*  
Fueled and carbonization  
Products

Course of volatile products in the coke oven. Břetislav  
 G. Šimek, Eduard Kobera, and Bohumír Tejuický (Coal  
 Minerals Research Inst., Prague). *Palms* 31, 4-13(1951).—  
 Coking tests were carried out in an app. comprising a mobile  
 oven effecting the formation and the progress of the fusion  
 zone, in order to imitate the coking process and to follow  
 the course of volatile products in the coke oven. Seven  
 samples of Czechoslovakian coals were investigated ranging  
 from low to high volatility bituminous coals. It was found  
 that more than 75% of volatile products move toward the  
 hot oven walls, although in the case of high-volatile coal  
 nearly 47% of the gas produced passed towards the colder  
 center of the charge. The effect of variables such as coking  
 temp., bulk d. of the charge, and the temp. of the gas-  
 collecting space were studied. James L. Jeal

KUCERA, E.

"Stanislav Landa and Rudolf Riedl's Tabulky and diagramy v oboru palvi. Díl I (Tables and Diagrams on Fuels. Vol. 1); A book review."

p..318 (Chemický Průmysl) Vol. 7, no. 6, June 1957  
Prague, Czechoslovakia

SC: Monthly Index of East European Accessions (EFAI) LC. Vol. 7, no.4,  
April 1958

CZECHOSLOVAKIA./Chemical Technology. Chemical Products and  
Their Application. Electrochemical Manufacturing  
Electrodeposition. Chemical Sources of Electric  
Current.

H-12

Abstr Jour: Ref Zhur-Khim., No 13, 1958, 43965.

Author : Kucera Eduard.

Inst :

Title : Prospects of Providing a Supply of Direct Current  
for the Large Electrolysis Installations.

Orig Pub: Chem. prumysl, 1957, 7, No 10, 540-543.

Abstract: A review of the sources of direct current and of  
their economic characteristics from the standpoint  
of suitability for supplying current to electro-  
lyzers.

Card : 1/1

KUCERA, E.; ██████████

TECHNOLOGY

Periodical CHEMICKY PRUMYSL. Vol. 8, no. 2, Feb. 1958.

KUCERA, E.; PATEK, K. The chemical industry ten years after the Victorious February.  
p. 57.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 3, March, 1959. Uncl.

KUCERA, E.

TECHNOLOGY

Periodical CHEMICKY PRUMYSL. Vol. 8, no. 2, Feb. 1958.

KUCERA, E. A national conference on the planning and building of new chemical plants.  
p. 87.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 3, March, 1959. Uncl.



KUCERA, E.

TECHNOLOGY

Periodical CHEMICKY PRUMYSL. Vol. 8, no. 2, Feb. 1958.

KUCERA, E. Tabulky a diagramy z oboru paliv; dil II (Tables and Diagrams on Fuels. Pt. 2); a book review. p. 94.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 3, March, 1959. Uncl.

KUCERA, E.

Physicochemical and mechanical properties of photoelastic polymeric materials. V. Kocian and E. Kucera (Ost. theoret. a aplik. mechaniky, CSAV, Prague). *Chem. Průmysl v. 66:1-4(1967)*. The time dependence was studied of the const. of optical sensitivity ( $K$ ) of poly(methyl methacrylate) (I), and poly(benzyl methacrylate) (II) at const. stress ( $\sigma$ ), and simultaneously the deformations ( $\epsilon$ ) were stud., all expts. being carried out at 22°. For I (II) the value of  $K$  is plotted as a function of  $\log(\text{time})$  for  $\sigma = 97.2-388.3 \text{ kg./sq. cm. (35.3-148.7)}$ . The relative change of  $K$  in % ( $\phi$ ) may be expressed as  $\phi = K(\ln t) - g$  ( $h$  and  $g$  being functions of  $\sigma$ ), the values of  $h$  and  $g$  being calcd. for I and II in the studied range of  $\sigma$ . The quality ( $D$ ) of I (II) is defined as  $D_{\text{rel}} = (E_1/K_1) \times 10^{-4} (\text{cm.}^{-1})$ , where  $E_1 = \sigma/\epsilon$ ; the change of  $D$  with time is plotted for various  $\sigma$ , the value of  $D$  for I (II) being found 0.1 (3.0-1.0). X-ray diagrams of II in the charged and uncharged states showed amorphous structures. J. Sebeuda-

4  
 4E20 (g)  
 2 (NB)

bc  
 1/1

2/2

KUCERA, E.

NIKOLAJENKO, V.

CZECHOSLOVAKIA

no academic degree indicated

Institute for physical chemistry, Czechoslovak Academy of Sciences (Institut für physikalische Chemie, Tschechoslowakische Akademie der Wissenschaften), Prague

Prague, Collection of Czechoslovak Chemical Communications, vol 27, No 10, Oct 62, pp 2326-2335.

"Study of the Size of Particles of Metallic Nickel and Magnesium Oxide in Mixed Catalysts of Ni-MgO"

Co-authors:

PALEK, M. same as above

KUCERA, E. " " "

DANES, V. " " "

BOSACEK, V.; POLAK, R.; KUCERA, E.; DANES, V.

Surface and structural properties of aluminum oxide after its treatment by halogens and aluminumtetrafluoborate. Coll Cz Chem 27 no.11:2575-2585 N '62.

1. Institut für physikalische Chemie, Tschechoslowakische Akademie der Wissenschaften, Prag.

GRUBNER, O.; MICERA, E.

Countercurrent gas-liquid chromatography. Coll Cz Chem 29 no.3:  
722-729 Mr '64.

1. Institute of Physical Chemistry, Czechoslovak Academy of  
Sciences, Prague.

KUCERA, E.; GROBNER, O.

Contribution to the theory of non-ideal separation processes using a one-dimensional model of separation column. Coll Cz chem 29 no.8:1782-1789 1g '64.

1. Institute of Physical Chemistry, Czechoslovak Academy of Sciences, Prague.

KUCERA, Evzen

Epoxy resins for space photoelastometry. Chem. prum 14, no.9:483-485  
S '64.

1. Institute of Theoretical and Applied Mechanics, Czechoslovak  
Academy of Sciences, Prague.

KUCERA, F.

Water supply and sewerage in Slovakia.

P. 202, (Voda) Vol. 36, no. 8, 1957, Praha, Czechoslovakia

SO: Monthly Index of East European Accessions (EFAI) Vol. 6, No. 11 November 1957



KUCERA, F.

CZECHOSLOVAKIA / Farm Animals, Hogs

Q-4

Abs Jour: Ref Zhur-Biol., No 2, 1958, 7189

Author : Frant Kucera.

Inst : Not given

Title : Hog Breeding in Great Britain.

Orig Pub: Nas chov. 1957, No 12, 335-336

Abstract: No abstract.

Card 1/1

22

KUCERA, Evzen

Hardenig epoxy compounds for space photoelastometry. Chem  
prum 15 no.1:35 Ja '65.

1. Institute of Building of the Czech Higher School of  
Technology, Prague.

OSOLSOBE, J., dr., inz.; HOMOLA, F., inz.; KUCERA, F., inz.; PAVLICEK, Z., inz.; KUBINEC, R., inz.; CAHELKA, J., akademik; SIMURDA, L. inz.; JUZA, J., dr., inz.; KRAL, V., inz.; POSPISIL, J., inz.; DOLEZAL, R., prof., dr., inz.; ZEMAN, Vl., inz.; LIMPOUCH, B. inz.; SVAB, V., dr., inz.; LASKA, L., inz.; JAHODAR, V., inz.; KOHN, F., inz.

Development of power installations over a long period of time; summary of reports made at the 7th Conference of Power engineers in Bratislava, September 6-8, 1960. Energetika Cz 11 no.3: Suppl: Energetika 11 no.3:1-23 '61.

1. Chlen korespondent Ceskoslovenske akademie ved (for Osolsobe).

KUCERA, F.

"Contribution to Planning and Establishing Norms for Losses of Electricity",  
P. 338, (ENERGETIKA, Vol. 4, No. 8, Aug. 1954, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 3, No. 12,  
Dec. 1954, Uncl.