

CUREA, I.; MIHAILESCU, Dtr.; TORO, E.; CUREA, O., prof.; BERCEI, E.;
CHEREAGA, O.; JURA, C., conf.; OHANOVICI, N.; SINITEANU, D., asist.;
LAMOTH, P., conf.; POLICEC, A., asist.; MARIENUT, U., asist.;
STURZ, I.; OITA, V.; BAEA, R.; MUNTEANU, A.; SCHIFF, A., asist.

Total solar eclipse of February 15, 1961. Studii astron seismol 7
~~1962:247-258 162~~.

1. Membru al Comitetului de redactie, "Studii si cercetari de astronomie
si seismologie" (for I. Curea). 2. Studenti la Institutul Pedagogic
Timisoara (for Bercei and Chereaga).

CUREA, I.; MIHAILESCU, Dtr.; TORO, E.; CUREA, O., prof.; BERCEI, E.;
GHEREGA, O.; JURA, C., conf.; OHANOVICI, N.; SINITEANU, D., asist.;
LAMOTH, P., conf.; POLICEC, A., asist.; MARIENUT, U., asist.;
STURZ, I.; OITA, V.; BAEA, R.; MUNTEANU, A.; SCHIFF, A., asist.

Total solar eclipse of February 15, 1961. Studii astron seismol 7
no. 2:247-258 '62.

1. Membru al Comitetului de redactie, "Studii si cercetari de astronomie
si seismologie" (for I. Curea). 2. Studenti la Institutul Pedagogic
Timisoara (for Bercei and Gherega).

CUREIUA, S.
SURNAME, Given Names

Country: Rumania

Academic Degrees: -Engineer-

Affiliation: -not given-

Source: Bucharest, Stiinta si Tehnica, Vol XIII, No 12, Dec 1961, pp 20-21.
Data: "Solar Batteries."

GPO 981643

R/002/62/000/008/003/003
D272/D308

AUTHOR: Curelea, Sterie, Engineer

TITLE: Electric energy, cold, heat, by means of the thermo-elements

PERIODICAL: Știință și tehnica, no. 8, 1962, 30 - 32

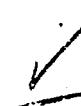
TEXT: After briefly presenting and discussing the Seebeck and Peltier effects, the more important - from the practical viewpoint - thermoelectric effects in semiconductors are described. Their application in the USSR in thermoelectrogenerators for supplying power for radio receivers is surveyed based on semiconductors heated by a customary paraffin lamp, or on vacuum tubes, with a small distance between cathode and anode (less than 10 μ) the cathode being heated to 2000 - 2500°C, resulting in several tens of watts per cm^2 cathode surface. More recent applications by A.F. Ioffe of the Peltier effect, in practical micro-semiconductor refrigerators and heaters (employing the alternate joints of the n and p couples), based on increase in efficiency, in utilizing the electric energy input for

Card 1/2

Electric energy, cold, heat, ...

R/002/62/000/008/003/003
D272/D308

pumping heat from or into the surrounding medium, are finally presented, and their importance as well as possible future developments are discussed. There are 7 figures.



Card 2/2

CURELARU, A.

Preparation and burning of rough-granulated coal dust obtained by grinding low-quality Rumanian coal. p. 65.

ENERGETICA. (Asociatia Stiintifica a Inginerilor si Tehnicienilor din Romania si Ministerul Energiei Electrice si Industriei Electrotehnice) Bucuresti, Rumania, Vol. 7, no. 2, Feb. 1959.

Monthly list of East European Accessions (EEAI) LC, Vol. 8, no. 8, Aug. 1959.

Uncl.

BURDUCEA, C., ing.; CURELARU, Al., ing.

Considerations on the pollution of the atmosphere by gas exhaust from the chimneys of electric power stations. Energetica Rum 9 no.9:339-350 S '61.

BURDUCEA, C., ing.; CURELARU, Al., ing.

Heat and electric power station, Craiova. Energetica Rum 12
no. 8:392-400 Ag '64.

1. Technical Director, Institute for Electric Power Study and
Planning, Bucharest (for Burducea). 2. Director, Electric
Thermification Power Station, Craiova (for Curelaru).

SIMIENESCU,N.; ABUREL,V.; CIOBANU,M.; CURELARU,I.; MARIN,I.

Arterial segments of the spleen in man, anatomical basis of controlled partial splenectomy. Rumanian M. Rev. 3 no.4:6-9 0-D '59.

1. Department of Pathological Anatomy of the "Gh. Marinescu" Hospital, Bucharest.

(SPLEEN,surgery)
(SPLENIC ARTERY,anat. & histology)

2
ROMANIA

MAXIMILIAN, V., MD; FILIPESCU, Z., MD; CURELARU, I., MD.

"I. C. Frimu" Emergency Clinical Hospital, Bucharest
(Spitalul clinic de urgență "I. C. Frimu", București) -
(for all)

Bucharest, Vîata Medicală, No 14, 15 Jul 63, pp 981-989

"The Emergency Functional Re-equilibration in Cases of Acute
Complications and Accidents in the Course of Nephropathies."

ROMANIA

FILIPESCU, Z., MD.; CORILIANI, I., MD.; ANAGNOSTE, MD.; CEAUSU, M., MD.;
PAGARASANU, R., MD.

Surgical Clinic II of the Emergency Clinical Hospital "I. C. Frimu",
Bucharest (Clinica a II-a de chirurgie a Spitalului clinic de
urgenta "I. C. Frimu", Bucuresti); Director: Professor I. GURAI -
(for all)

Bucharest, Vista Medicala, No 15, 1 Aug 63, pp 1041-1045

"Acute Poisoning with Hydrazide."

CURELEA, Sterie
SURNAME, Given Names

Country: Rumania

Academic Degrees: Engineer

Affiliation: -not given-

Source: Bucharest, Stiinta si Tehnica (Supplement), No 8, Aug 1961, pp

Data: "Automation in the Flights of the 'Vostok' Ships."

GPO 981643

R/002/61/000/012/004/006
D282/D304

AUTHOR: Curelea, S., Engineer

TITLE: Solar batteries

PERIODICAL: Stiinta si tehnica, no. 12, 1961, 20-21

TEXT: The article deals with the direct transformation of solar energy into electric power. The author briefly describes the principle of semiconductors and the application possibilities of solar batteries. Solar batteries may be used in transistorized radio receivers and telephone sets, in automatic meteorological stations, space vehicles, solar power plants, etc. Two Soviet portable solar power stations for geological purposes were presented at the Exhibition of Achievements of the National Economy in Moscow in 1959. A Soviet team headed by Professor B.A. Baum is designing at present a large power plant which will be built on Mount Ararat and will produce 2.2 million kWhr of electric power daily. According to Soviet Nobel-prize winner, Academician N. Semenov, 100,000 high capacity power stations could be powered by solar energy, if one-tenth

Card 1/2

Solar batteries

R/002/61/000/012/004/006
D282/D304

of all continents, except the Antarctic, were covered with solar batteries of a yield of approx. 15% each. According to latest information, solar batteries with an efficiency of 15% or even 20% have already been constructed. There are 4 figures.

✓

Card 2/2

R/002/62/000/012/003/003
D272/D308

AUTHORS: Curelea, S. and Zăganescu, Fl., Engineers

TITLE: The applications of cybernetics in space

PERIODICAL: Stiința și Tehnica, no. 12, 1962, 40-41

TEXT: Starting with a brief summary of the points raised by Andrei Prokhorov, Member of the Presidium of the Scientific Council for Cybernetics of the USSR Academy of Sciences, on the applications of cybernetics in space technology, this problem is described in some detail. The application of electron computers to the design and launching of space ships, the training of astronauts in simulated flight patterns within cybernetically controlled model space ship cabins, and the prelaunching check program performed automatically by cybernetic circuits on each component and on all combinations within the actual rockets, as well as the control of the flight itself, are considered. There are 4 figures.

Card 1/1

CURELEA, Sterie, ing.

Agroautomatics. St si Teh Buc 14 no.6:10-11. Je '62.

CURELEA, S., ing.; ZAGANESCU, Fl., ing., candidat in stiinte tehnice

Cybernetics and cosmos applications. St si Teh Buc 14 no.12:
40-41 D^t62.

CURELEA, Sterie, ing.

~~Electric power, cold, heat, through the agency of thermoelements.~~
St si Teh Buc 14 no. 8:30-32 Ag '62.

CURELIA, Sterie, ing.

Medical electronics. St si Tch Buc 15 no.2132-33 N 763

CUREV, Atanas, inz.

Cleaning waste water from industrial discharge pipes. Vodni
hosp 13 no. 5:181-183 '63.

1. Vyzkumný ústav vodohospodarsky, Praha.

CUREV, At., inz.

Treatment of the underground waters containing iron and manganese. Vodni hosp 13 no.12:Suppl.:insert, '63.

CURI, Jozef

SURNAME, Given Names

(2)

Country: Czechoslovakia

Academic Degrees: Dr. rer.

Affiliation: Helminthological Institute, SAV /Slovenska akademie vied; Slovak Academy of Sciences/ (helminologicky ustav SAV), Kosice

Source: Bratislava, Masa Veda, Vol VIII, No 11, Nov 61, pp 671-675.

Data: "Diseases of Sugar Beets."

GPO 941643

CURI, Jozef

Contribution to data on the number of generations of the helminth Heterodera schachtii Schmidt, 1871 in Slovakia. Biologia 19 no.2:115-117 '64.

1. Helmintologicky ustav Slovenskej akademie vied v Kosiciach a UKSUP, Kosice.

*

CURIAC, S.

Results of some experiments in pickling thin steel sheets. p. 45.

METALURGIA SI CONSTRUCTIA DE MASINI

Vol. 8, no. 3, Mar. 1956

Rumania

Source: EAST EUROPEAN LISTS Vol. 5, no. 10 Oct. 1956

SARIC,M.; CURIC,R.

Influence of light on the intensity of phosphorus uptake in wheat. Zemljiste biljka 11 no.1/3:539-544 '62

1. Institut za ratarstvo, Novi Sad.

OURIVIC, ICA

H U N G .

Combining the manufacture of soda ash with the electrolysis of sodium chloride by the mercury cathode method. Constantin Calisiru, Ion Cucivici, and Cornelia Leonite, Rev. Chim. (Bucharest) 6, 57-71 (1955).—A process is proposed which would combine in one plant the electrolysis of NaCl from brine and the manuf. of Na₂CO₃ by a slightly modified Solvay process. The 2 units would operate in unison. A flow sheet is shown. Gerard Aufleger

AH
SS

CURIEVICI, I.

The problem of postuniversity courses for superior chemical cadres in the chemical industry.

P. 421 (REVISTA DE CHIMIE) (Bucuresti, Rumania) Vol. 8, no. 6, June 1957

SO: Monthly Index of East European Accessions (EEAI) LC Vol. 7, No. 5. 1958

COUNTRY	:	Rumania	B-14
CATEGORY	:		
ABS. JOUR.	:	RZhKhim., No. 5 1960, No.	17272
AUTHOR	:	Curievici, I., Marinescu, M., and Valu, F.	
INST.	:	Iasi Polytechnic Institute	
TITLE	:	The Experimental Investigation of the Evaporation of Drops of Some Organic Solvents	
ORIG. PUB.	:	Bul Inst Politechn Iasi, 4, No 3-4, 337-344 (1958)	
ABSTRACT	:	The authors have measured the rate of evaporation of drops of toluene and ethanol of different sizes in a stream of air at different temperatures and flow rates. The equation of Ranz [?] and Marshall (Chem Eng Progress, 48, 141 (1952)) for the heat transfer from an evaporating drop is confirmed. The modification to this equation proposed by Radush (RZhKhim, 1956, No 22, 73791) could not be confirmed.	
N. Fuks			
CARD:	1/1	64	

CURIEVICI, I.; PERETZ, D.

Research on cooling granulated ammonium nitrate in fluidized layer.
Rev chimie Min petr 13 no.7:401-404 Jl '62.

CURIK, BOHUMIL

SEEMAN, Jiri, MUDr; CURIK, Bohumil

Methods of inhibiting of growth of Proteus. Cesk. hyg. epidem.
mikrob. 2 no.2:148-153 Apr '53.

1. Z Ustavu epidemiologie a mikrobiologie v Praze. (Reditel: Doc.
Dr Karel Raska)

(PROTEUS,
growth inhib.)

ZIVKOVIC, B.; ZONJIC, S.; CURIN, H.

Hemagglutination reaction in epidemic hepatitis. Higijena 14 no.1:
11-20 '62.

(HEPATITIS INFECTIOUS diag) (HEMAGGLUTINATION)

CURIN, Jiri

Instruction of standardization employees organized by the
Association of Machine Tool and Implement Factories.
Normalizace 11 no. 12: 387 D '63.

1. Vyzkumny ustav obrabecich stroju a obrabeni, Praha.

CAVKA, V.; BOGOJEVIC, D.; CURKOVIC, E.

Action for control of trachoma in the People's Republic of
Bosnia and Herzegovina. Med. arch., Sarajevo 9 no.4:203-
217 July-Aug 55.

1. Ocna klinika Med. fak. u Sarajevu. (Sef: prof. dr. V. Cavka).
(TRACHOMA, prev. & control
in Yugosl., statist. (Ser))

CURKOVIC, Erzamo, dr

Effect of renamid, antidrazia and esidrex on the intra-ocular pressure
in glaucoma. Med. arh. 16 no.5:51-62 S-0 '62.

l. Ocna klinika Medicinskog fakulteta u Sarajevu (Upravnik: prof. dr
Vladimir Cavka).

(GLAUCOMA) (HYDROCHLOROTHIAZIDE) (ACETAZOLAMIDE)
(DICHLOROPHENAMIDE)

CURKOVIC, Ivan, ekonomista

'ntroduction of the 42-hour workweek in the Dalmatinka Enterprise,
Sinj. Tekstil Zagreb 13 no.11:977-981 N '64.

1. Dalmatinka Spinning and Thread Mill, Sinj.

CURKOVIC, M.

Personal experiences in surgery of paranasal sinuses according
to the Pietrantoni de Lima's method. Radovi Med. fak. Zagrebu
Vol.3:185-190 1954.

1. Otolarинголски одјел Балнице др. Ј.Кајфеса у Загребу
(предсједник доцент др. Милован Курковић)
(PARANASAL SINUSES, surg.
technic)

CURKOVIC, Milovan
CURKOVIC, Milovan, dr.

Solitary extramedullary plasmacytoma. Lijec. vjes. '76 no.3-4:
123-127 Mar-Apr 54.

1. Iz Otolaringoloskog odjela dra J.Kajfesa u Zagrebu.

(MYELOMA, PLASMA CELL)

(ETHMOID & maxillary sinus)

(ETHMOID SINUS, neoplasms

myeloma, plasma cell)

(MAXILLARY SINUS, neoplasms

myeloma, plasma cell)

CURKOVIC, Milovan, Dr.

~~Paularingektomija. Lijec, vjes.77 no.1-2:34-41 Jan-Feb. '55.~~

1. Iz Bolnice dr. J. Kajfesa u Zagrebu.

(LARYNX, neoplasms

surg., laryngectomy with block dissection of neck(Ser))

CURKOVIC, Milovan, Dr.

Rhinogenic cough. Lijec. vjes. 77 no.8-9:387-391 Aug-Sept 55.

1. Iz Usnog odjela Opce bolnice dr. J. Kajfesa u Zagrebu.
(COUGH, etiology and pathogenesis,
paranasal sinuses dis.)
(PARANASAL SINUSES, diseases,
causing cough)

YUGOSLAVIA/General Problems of Pathology - Comparative Oncology. U-3
Tumors of Man.

Abs Jour : Ref Zhur - Biol., No 16, 1958, 75616

Author : Curkovic, M.

Inst :

Title : Tumor of the Glomus Jugulare.

Orig Pub : Acta chirurg.jugosl., 1956, 3, No 1, 76-79

Abstract : No abstract.

Card 1/1

CURLIN, A.

"Why We Need To Construct A Railroad Track Between Foca And Bilece" p. 230. (Zeleznice, Vol. 9, no. 7, July, 1953, Beograd.)

East European Vol. 2, No. 9,
SO: Monthly List of ~~new~~ Acquisitions, Library of Congress, September 1953, Uncl.

GURMAN, V.I. (Mechical)

Method for studying a class of optical standing waves. Aviam. I taken.
26 no.71162-31/6 MZ 166. (MIR4 18:3)

POPESCU, G.F., ing.; CURPAN, G., ing.

Timbering methods of mining works studied and applied in
the Maramures mining basin. Rev min 14 no.11:477-484 N'63.

SECHEL, Vasile, ing.; CAZACU, Iulian; MORARU, Nicolae, ing.; ACHIM, Stelian, ing.; MIHAI, Dumitru, ing.; ANDREI, I.; CURPAN, V.; BOT, Iosif; STROHLI, Ignat; LUPSE, O., ing.; PELICALA, Gh., ing.; TEODORESCU, Dumitru, ing.

Modern technological proceedings in mechanical engineering.
Probleme econ 18 no.1:154-163 Ja '65.

1. Technical Director, "Tractorul" Plant, Brasov (for Sechel).
2. Chief Planning Engineer, "Tractorul" Plant, Brasov (for Cazacu)
3. Technical Director, "Independenta" Plant, Sibiu (for Moraru).
4. Chief Technologist, "Independenta" Plant, Sibiu (for Achim).
5. Director, Colibasi Plant for Automobile Parts (for Mihai).
6. Director, Metallurgic Plant, Bacau (for Andrei). 7. Chief Engineer, Metallurgic Plant, Bacau (for Curpan). 8. Director, "Unirea" Metallurgic Plant, Cluj (for Bot). 9. Chief Engineer, "Unirea" Metallurgic Plant, Cluj (for Strohli). 10. Chief Metallurgist, "Unirea" Metallurgic Plant, Cluj (for Lupse).
11. Director, "Feroemail" Plant Technical and Sanitary Products and Installations, Ploiesti (for Pelicala). 12. Head of Technical Services, "Feroemail" Plant for Technical and Sanitary Products and Installations, Ploiesti (for Teodorescu).

L 30740-66

ACC NR: AP6022114

SOURCE CODE: RU/0018/65/000/010/0581/0586

10

B

AUTHOR: Voicu, Victor; Cursaru, Ion

ORG: none

TITLE: Study of the behavior of cyclones in ventilation installations

SOURCE: Constructia de masini, no. 10, 1965, 581-586

TOPIC TAGS: ventilation engineering, air conditioning equipment

ABSTRACT: After a discussion of the calculation method of cyclones in ventilation plants, the authors summarize the results of experimental studies on the subject carried out by the Labor Hygiene and Protection Institute. Orig. art. has: 6 figures and 23 formulas. [Based on authors' Eng. abst.] [JPRS]

SUB CODE: 13 / SUBM DATE: none

Card 1/1 ✓

UDC: 621.928.6:628.83

0916

00 27

~~CURTEANU, C.; VICASIU, A.; PAPILIAN, V.V.~~

An anatomic & clinical study of rheumatic diseases in children. Rumanian
M. Rev. 1 no.4:43-44 Oct-Dec 57.
(RHEUMATIC HEART DISEASE, pathol.
arterial changes)

VLAD, I.; CURTEANU, G.

Serious associations of the hematopoietic system in septicemia with
staphylococci. Microbiologia (Bucur) 6 no.1:25 Ja-F '61.

MINCIULESCU,M.; TARCHILA,D.; KENDE,D.; CURTEANU,G.; VLAD,I.

Anti-influenza vaccination with an autochthonous vaccine in a group of children (under 3 years of age) in an urban community.
Stud. cercet. inframicrobiol., Bucur. 10 no.4:455-457 '59.

1. Comunicare presentata la Simpozionul asupra epidemiei de gripe din 1957-1958, Bucuresti, 4-5 decembrie 1958.
(INFLUENZA, immunology)
(VACCINATION)

TARCHILA, D.; MEDESAN, F.; CURTEANU, G.; VLAD, N.; VICASIU, L.

Investigations on influenza antibody titres during the first months
of life. Rumanian M Rev. no.4:19-20 O-D '60.
(INFLUENZA immunology) (INFANT, NEWBORN immunology)

CURTEANU, G., dr.; PAPILIAN, V.V., dr.

Ebolizing rheumatic carditis and plurivisceral thromboangitis
with multiple infarcts. Pediatría (Bucur) 14 no.1:25-32 Ja-F'65

1. Lucrare efectuata în Spitalul unificat "Nucet", Regiunea
Crișana (director:dr. Gh. Rătescu) ai Spitalul clinic de
adulti nr.2 Cluj-Prosecitura (medic primar, dr. V.V. Papilian).

VLAD, I., dr.; CURTEANU, G., dr.; BOZSODI, I., dr.; BOERIU, E., dr.;
TAUTU, M., dr.

Peritonitis in infants. (Medico-surgical observations on 33
cases. Pediatria (Bucur) 14 no.2:133-142 Mr-Ap'65.

1. Lucrare efectuata in Spitalul de copii Oradea; partea
medicala; partea chirurgicala (director: dr. L. Kende).

CHIRILEI, H.; STEFAN, V.; DOROBANTU, N.; BOTI, D.; CURTICAPEANU, Georgeta;
BOTEA, M.

Influence of various fertilizers on the phosphorus absorption
and physiological processes in sugar beet plants, as studied
by the method of radioactive isotopes. Studii cerc biol veget
14 no.3:277-286 '62.

1. Comunicare prezentata de N. Salageanu, membru corespondent
al Academiei R.P.R., membru al Comitetului de redactie si
redactor responsabil, "Studii si cercetari de biologie;
Seria biologie vegetala."

CHIRILEI, H.; DOROBANTU,N.; CURTICAPEANU, Georgeta

Influence of magnesium, potassium phosphorus, and nitrogen fertilizers on the physiological processes of maize plants (*Zea mays*). Studii cerc biol veget 15 no.4:469-477 '63.

1. Comunicare presentata de academician N. Salageanu.

CHIRILEI, H.; STEFAN, V.; DOROHANTU, N.; CURTICAPEANU, Georgata

Influence of organic and bacterial mineral fertilizers on
some physiological processes of corn (*Zea mays*). Studii
cerc biol s. bot 16 no. 4:281-287 '64.

1. Chair of Plant Physiology, "Nicolae Balcescu" Agricultural
Institute.

CURTOV, Victor, ing.; BALTATEANU, M.; MICU, Gh., ing.; BARBUCEANU, Dumitru,
ing.

The "critical road" method. Constr Buc 17 no.802:4 22 My '65.

1. Institute of Building Research and Construction Economics (for Cur'tov).
2. Assistant Chief Engineer, Bucharest Construction and Assembling Enterprise (for Baltateanu).
3. Planning Workshop of the Bucharest Construction and Assembling Enterprise (for Micu).
4. Chair of Organizing, Planning, and Construction Economics, Institute of Constructions, Bucharest (for Barbuceanu).

CURTOVIC, H.

"Determining the best time for reverberation." p. 20, (TELEKOMUNIKACIJE,
Vol. 2, No. 4, Oct. 1953, Beograd, Yugoslavia)

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

CHAPTER #

Determination of iron in clays containing large amounts of
organic substances. R. Abramovici and Hortensia Curtu,
Rev. chim. (Bucharest) 3, #59-60 (1953).—Dissolve the
clay in H_2SO_4 , add several drops of H_2O_2 , ppt. Fe with
 NH_4OH , filter, wash; dissolve ppt. in $N HCl$, boil, reduce
with $SnCl_2$, and titrate with K_2CrO_4 . G. A.

CURTU, P.

CURTU, P. The country-wide competition in gliding. P. 4.

Vol. 2, no. 10, October 1956

ARIPILE PATRIET

TECHNOLOGY

Bucuresti

So: East European Accession, Vol. 6, no. 3, March 1957

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00050942

CKRYLO, J.

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00050942C

POLAND/ Farm Animals. Honeybees.

Q-6

Abs Jour : Ref Zhur - Biol.. No 10, 1958, No 45327

Author : Curylo, Jan

Inst : Not given

Title : Honey From Honeydew.

Orig Pub : Pszczelarstwo, 1957, 8, No. 7, 201-205.

Abstract : About one half of Polish honeys contain greater or smaller amounts of honeydew. In Poland the honeybees winter mainly on sugar feed. However, in forest apiaries the honeybees use large amounts of honeydew without harm to their health; it may be probably explained by the adaptation of bees to such food. With the aid of paper chromatography, German researchers found in the honeydew a number of sugars lacking in flower honey, namely: melezitose, erlose, dextrantiose and 4-glycoside-dextrantiose. Dextrins and melezitose are harmless for honeybees; the honeybees suffer from galactose, nitrogenous substances, and especially from the excessive content of mineral substances in the honeydew.

Card 1/1

46

CURZYTEK, Jan, mgr inz.

Industrial safety in moving the working platform with crew
by using the crane. Bud okretowe Warszawa 9 no.1:16-18 Ja '64.

1. Katedra Maszyn Dzwigowych i Podnosników, Politechnika,
Gdansk.

CURZYTEK, Jan, mgr ins., st. asystent.

Present state and significance of the Polish production of hand-operated hoists. Przegl mech 22 no.10:312-313 25 My '63.

1. Katedra Maszyn Dzwigowych i Przenosnikowych, Politechnika, Gdańsk.

✓ Investigation on centrifugal casting and the heat treatment of sleeves of spheroidal graphite cast iron. M. Cury-
tek. Przeglód Odlewnictwa 8, 295-301 (1958). Expts. on
gravity and centrifugal casting of spheroidal graphite cast-
iron sleeves for machine parts were described. The metal
for gravity casting was melted in a cupola, and poured at
1380° into the ladle, where the process of desulfurization by
MnCO₃ and CaC₂, and modification by introducing Mg and
Si compds. were done. The product contained C 3.25,
Si 2.3, Mn 0.45, P 0.25, S 0.005, and Mg 0.09%, and was
characterized by a pearlitic structure with spheroidal gra-
phite. The inspection of sleeve quality revealed the exis-
tence of internal defects, which rejected this type of casting
technology for the production of sleeves. Four melts contg.
C 3.10-3.35, Mn 0.48-0.65, Si 2.3-2.6, P 0.13-0.20, S
0.003-0.010, and Mg 0.09-0.12 were prep'd. by centrifugal
casting. After the heat-treatment the tensile strength and
hardness were detd. Centrifugal casting was more eco-
nomical than gravity casting, because of saving on metal, cost
of molding, and diminishing of rejections. The production
cost of sleeves was reduced by 1/4, the high temp. of casting
was no more a crit. factor, the mech. properties of sleeves
as cast or heat-treated were better, and more uniform
through the whole length; and the time of heating during
the thermal treatment could be greatly reduced. The prod-
uct is recommended for use in diesel motors, and the most
suitable isothermal heat-treatment is indicated. W.T.

GW
1/

Distr: 4E2C

CURZYTEK, Mieczyslaw, mgr inz.

Properties and use of toughened T-1 steel for welded structures.
Przegl spaw 17 no.1:6-9 Ja '65.

CURZYTEK, Mieczyslaw, mgr inz.

Progress in the production and use of heat treated steels
for welded structures. Wiad hut 21 no.1:4-10 Ja '65.

CURZYTEK, Mieczyslaw, mgr inz.

Use of heat treated low-carbon steels for welded structures.
Przegl spaw 17 no.4:94-97 Ap '65.

CURZYTEK, Mieczyslaw, mgr inz.

Installation for mass heat treatment of rolled products. Wlad
hut 21 no.2:48-54 F '65.

CUS, M.

Segmental arterial vascularization of the lower pole of
kidney in man. Bul sc Youg 8 no. 1/2:17 F-Ap '63.

1. Anatomski institut Medicinskog fakulteta, Univerzitet,
Sarajevo.

CUS, Vinko; POZLEP, Stefan, inz.

Electromagnetic braces and brakes made in Yugoslavia. Stroj vest
9 no.1/2:55-56 Ap '63.

1. Tovarna avtomobilov in motorjev, Maribor.

ROSOVIC, Aleksandar, prof. dr; CUSIC, Marija, asist.

Electrophoresis of isonicotinic acid hydrazide. Srpski arh.celok.
lek. 77 no.12:1590-1593 Dec.54

1. Institut za fizikalnu terapiju Medicinskog fakulteta u Beogradu.
Upravnik: prof. dr Aleksandar Bosovic.

(ELECTROPHORESIS,

of isoniazid)

(NICOTINIC ACID ISOMERS, determination,
isoniazid, electrophoresis)

CUSKE, Ferdynand

A modernized passenger car in the German Democratic Republic.
Przegl kolej mechan 14 no.6:184-188 Je '62.

1. Zaklady Naprawy Taboru Kolejowego, Ostrow Wlkp.

CUSKE, Ferdynand

Central Designing Office of the Railroad Rolling Stock Repair
Shops in Ostrow Wielkopolski as a new form of technical progress.
Przegl kolej mechan 13 no.9:287-286 S '61.

BONDARENKO, V.D.; CUS'KOV, Yu.K.; PASHCHENKO, V.P.

Determining the thermionic constants of metallic film cathodes of
converters. Izv. AN SSSR. Ser. fiz. 28 no.9:1545-1547 S '64.
(MIRA 17:10)

ZARKOVIC, Grujica, profesor d-r; CUSTOVIC, Fatima, asistenti dipl.hemicar;
PETROVIC, Zivana, dipl.hemicar

Radioactivity of the air and rain measured during 15 months in
1958 and 1959 in Sarajevo. Voj.san.pregl., Beogr. 17 no.9:888-
894 S '60.

1. Medicinski fakultet u Sarajevu, Institut za higijenu i preventivnu
medicinu
(RADIOACTIVE FALLOUT)

CUSTOVIC, I.; MILETIC, D.; HADZIMUSIC, N.; MARKOVIC, D.

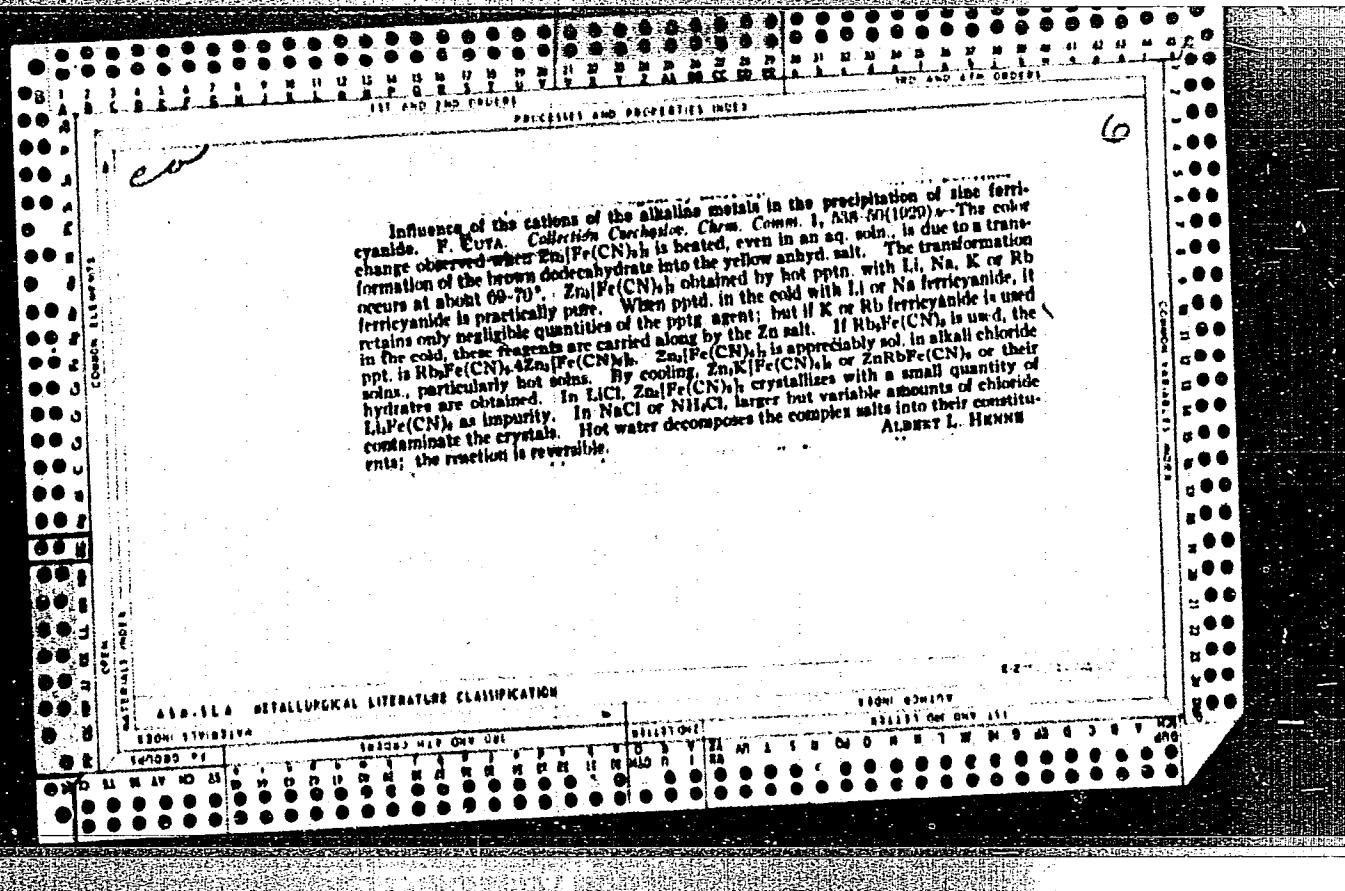
Congenital hyperplasia of the adrenal oortex. Med. arh. 18 no. 6:
69-75 N-D'64.

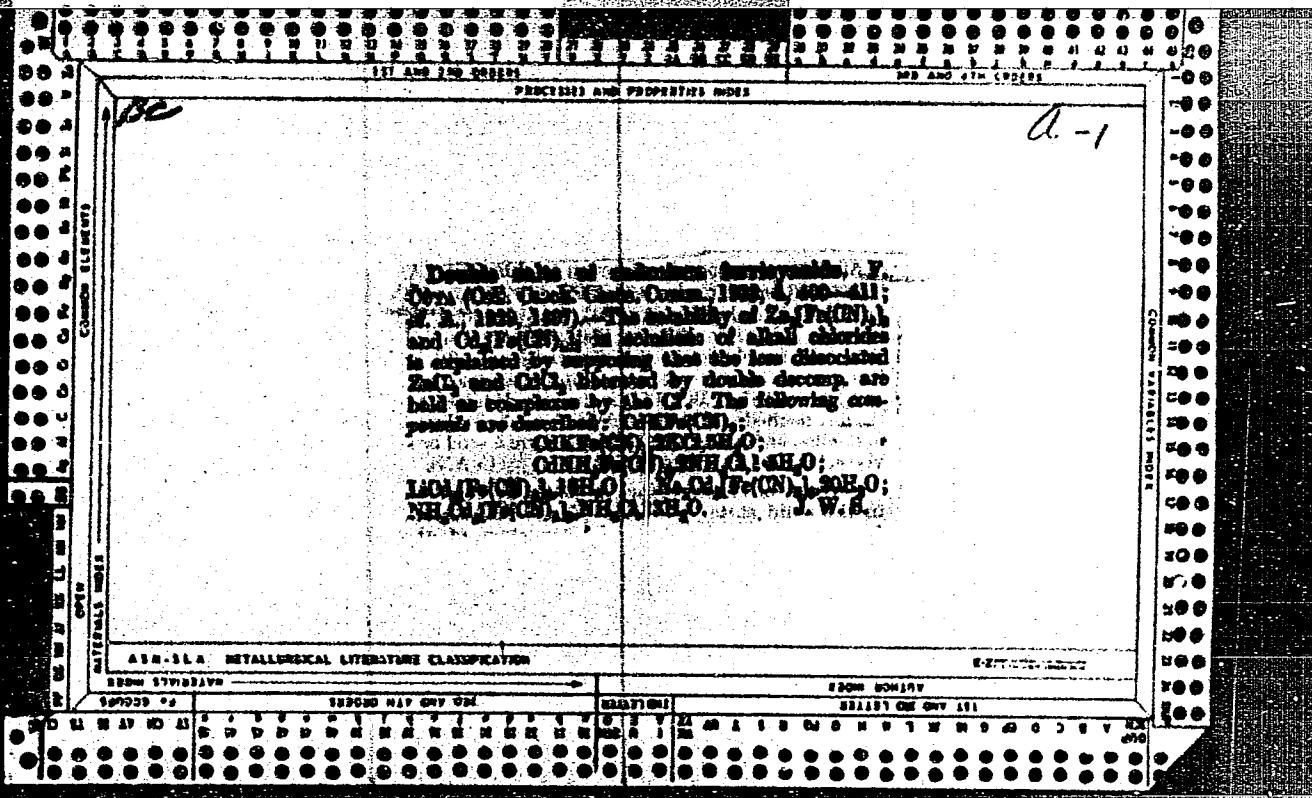
1. Klinika za djecje bolesti Medicinskog fakulteta u Sarajevu
(Sef: Prof. dr. M. Sarvan).

OBRADOV, S., doc. dr.; DJUGUMOVIC, Z., dr.; TOMIC, S., doc. dr.; SELAK, I., dr.; GUSTOVIC, K., dr.

Cushing's syndrome in a rheumatoid arthritis patient following prolonged corticotherapy. Med. Glas. 18 no.11:364-366 N '64

1. Interna klinika (I) Medicinskog fakulteta u Sarajevu (Sef: prof. dr. B. Zimonjic); Institut za patolosku anatomiju Medicinskog fakulteta u Sarajevu (Sef: doc. dr. A. Nikulin).

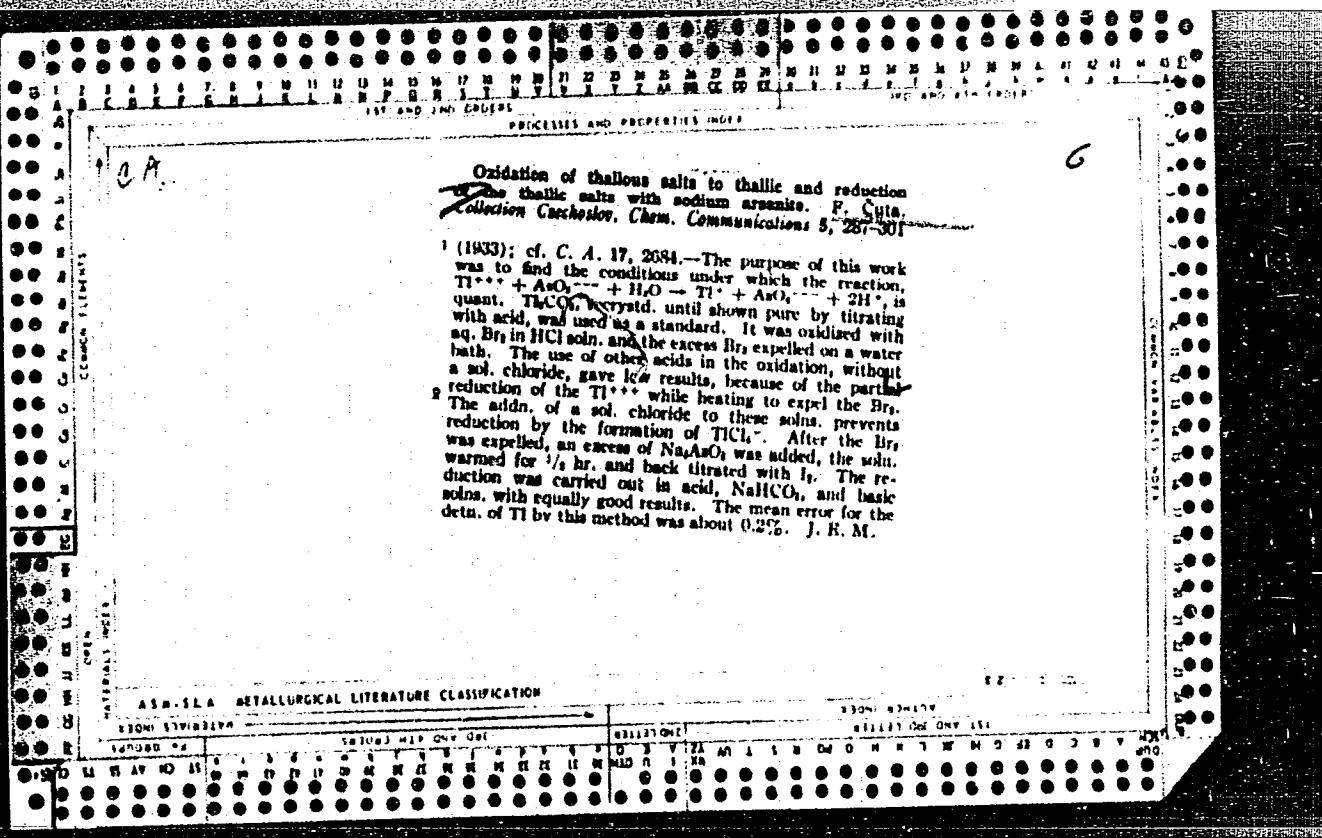




Some double salts of cadmium ferricyanide. R. CUTA, Collection Czechoslov. Chem. Communications 4, 400-11; (Chem. Listy 55, 225-31 (1962))— $\text{CdFeK}(\text{CN})_6$ was prep'd. by pptg. 0.02 M CdCl_2 with an equiv. amt. of 0.03 M $\text{K}_3\text{Fe}(\text{CN})_6$ added drop by drop, while boiling and stirring; the ppt. was washed until free from Cl and stored in a moist state. $\text{CdFeK}(\text{CN})_6 \cdot 2\text{KCl} \cdot 5\text{H}_2\text{O}$ was prep'd. from 128 g. KCl in 500 cc. H_2O when $\text{CdCl}_2 \cdot \text{K}_3\text{Fe}(\text{CN})_6$ mol. concns. were added in the ratio 0.33:0.11, 0.33:0.11, 0.16:1.0; rectangular yellow-red plates sepd. in 2-3 days attaining a length of 0.75 cm. in air or H_2O they slowly disintegrate into blood-red, octahedral, microscopic crystals of $\text{CdKFe}(\text{CN})_6$. $\text{CdNH}_4\text{Fe}(\text{CN})_6 \cdot 2\text{NH}_4\text{Cl} \cdot 1.5\text{H}_2\text{O}$ formed from an NH_4Cl soln. add'd. at boiling; the crystals do not change form or compn. with time but decompose in H_2O . If the NH_4Cl soln. is add'd. at room temp., microscopic yellow plates of $\text{Cd}(\text{NH}_4)_2\text{Fe}(\text{CN})_6 \cdot \text{NH}_4\text{Cl} \cdot 13\text{H}_2\text{O}$ form; they are not decompd. by boiling in H_2O and are only slightly sol. $\text{LiCd}[\text{Fe}(\text{CN})_6] \cdot 16\text{H}_2\text{O}$ was prep'd. from 66 g. $\text{KCDFe}(\text{CN})_6$ in 400 cc. boiling H_2O contg. 72 g. LiCl . In 24 hrs. microscopic tabular red crystals formed; they are insol. in H_2O , are not decompd. by boiling H_2O , and retain their form and shape for yrs. $\text{Na}_2\text{Cd}[\text{Fe}(\text{CN})_6] \cdot 20\text{H}_2\text{O}$ was prep'd. from 42 g. $\text{CdKFe}(\text{CN})_6$, 600 cc. water

NaCl soln, and 50 cc. boiling H₂O. Microscopic crystals of cuboid form sepd.; they are insol. in cold or hot H₂O and are not decomprl. by boiling H₂O. The soln. of Zn and Ca[Fe(CN)₆] in alkali chlorides is due to the less dissolved ZnCl₂ and CdCl₂ (made free by the reaction) being bound in the form of a complex with the chloride. P. M.

A.S.T.M. METALLURGICAL LITERATURE CLASSIFICATION									
CLASSIFICATION INDEX									
ALPHABETICAL INDEX									
1971 AND 1972 EDITION									
ALPHABETICAL INDEX									
CLASSIFICATION INDEX									
A.S.T.M. METALLURGICAL LITERATURE CLASSIFICATION									

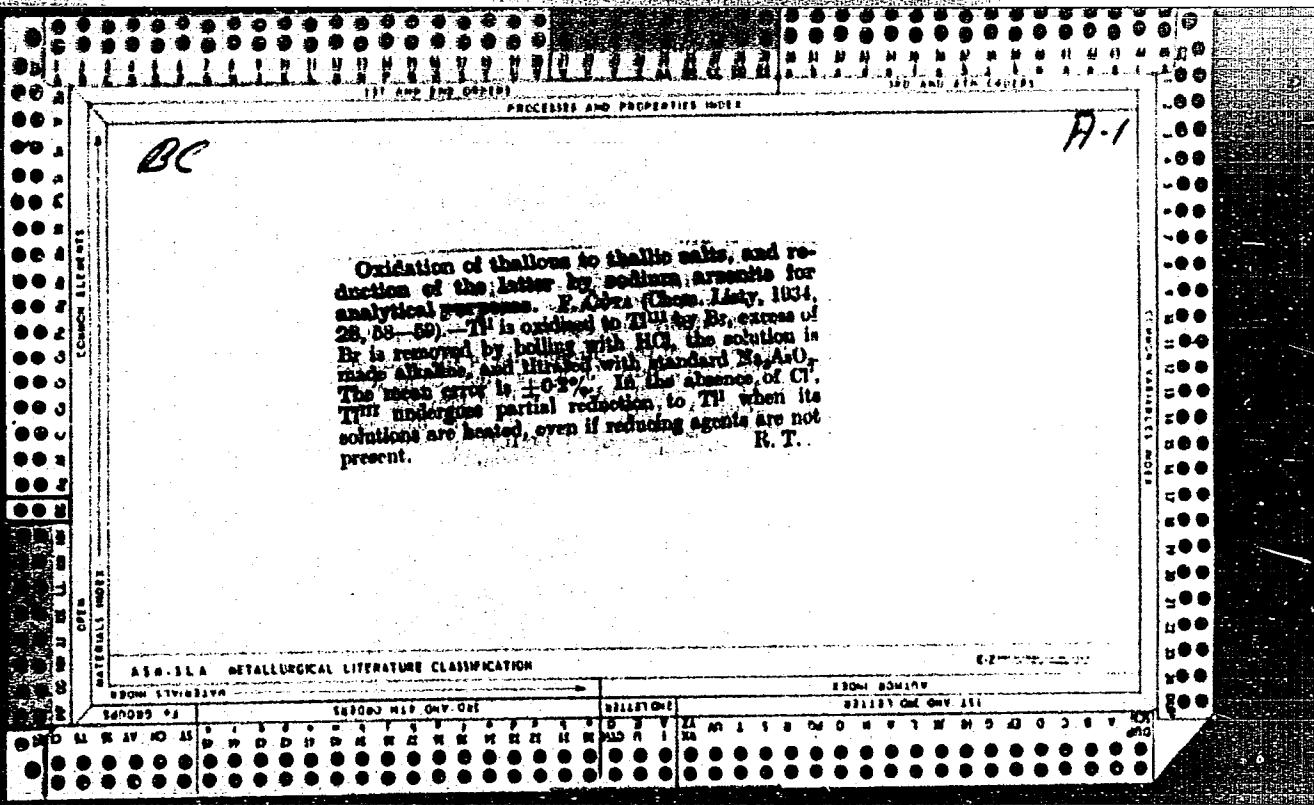


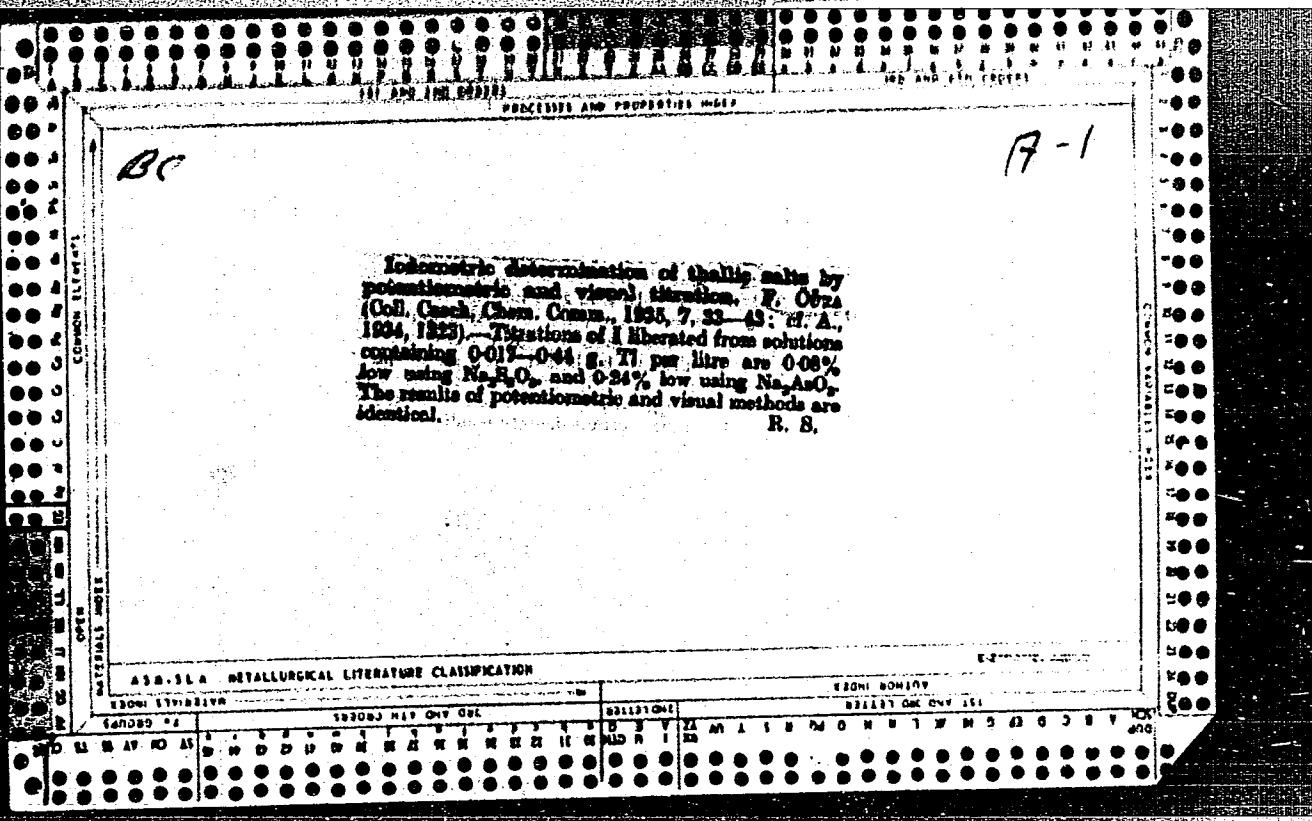
Potentiometric titration of thallic salts by sodium thiosulfate. E. Cuta. Collection Czechoslov. Chem. Communications 6, 383-87; Chem. Listy 58, 320-5 (1964). Trivalent Tl^+ in HCl soln. at 90° can be titrated by $Na_2S_2O_3$ in the presence of Hg^2+ as catalyst. The thiosulfate is oxidized to sulfate with a mean error of 0.06%. The equivalence point is detd. from the potentiometric inflection point, by titration to a definite potential (cf. Miller, C. A. 16, 1236) or by observing the deflections of a direct-coupled millivoltmeter. Pt wire serves as indicator electrode. Co^{2+} , Fe^{2+} and quinquevalent As salts interfere, but Br^- , Cl^- , Cr^{2+} ion, a small amt. of Br^- ion, Hg^2+ and Cl^- salts, H_2SO_4 , H_3PO_4 and $HClO_4$ do not in the presence of excess HCl . L. W. Elder

L. W. Elder

7

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00050942C





PROPERTY AND PREVENTION

30

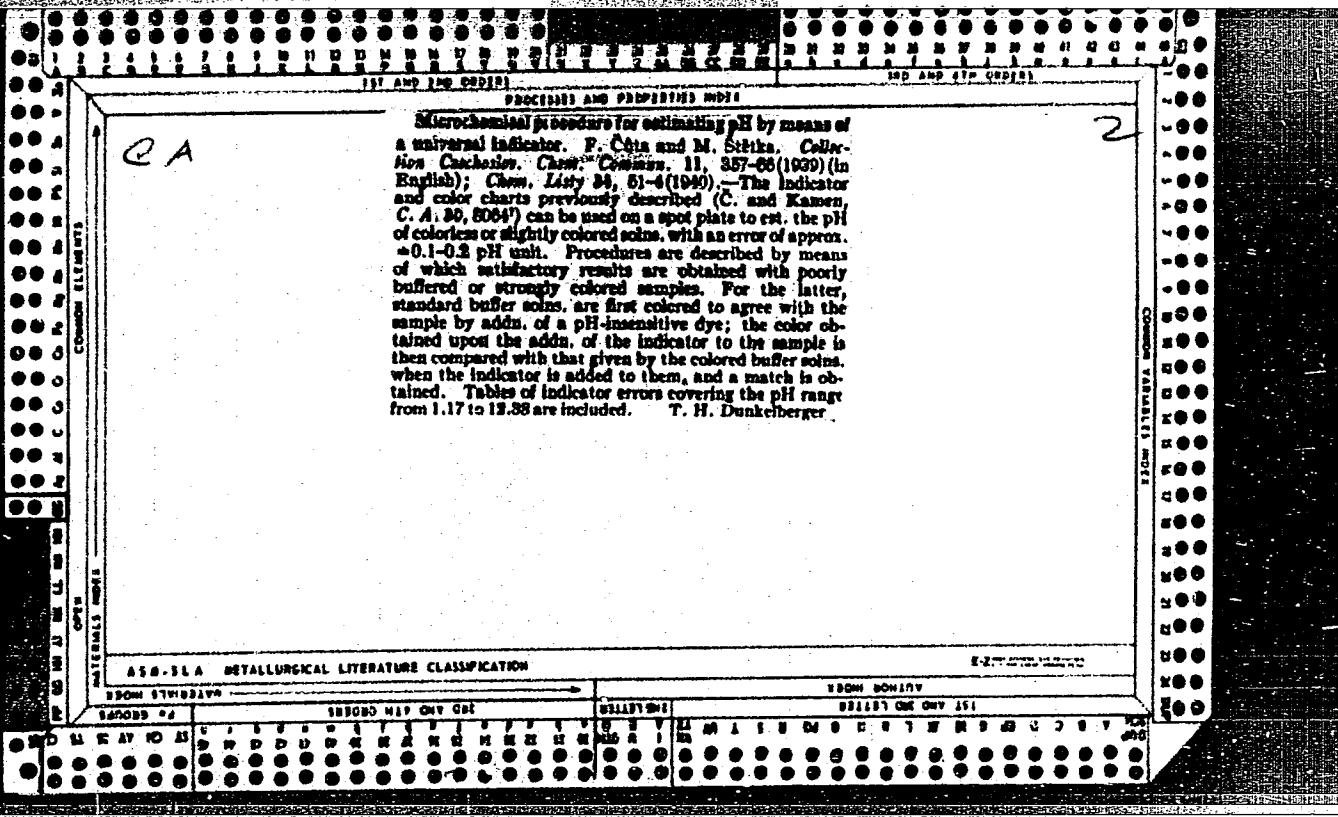
a-1

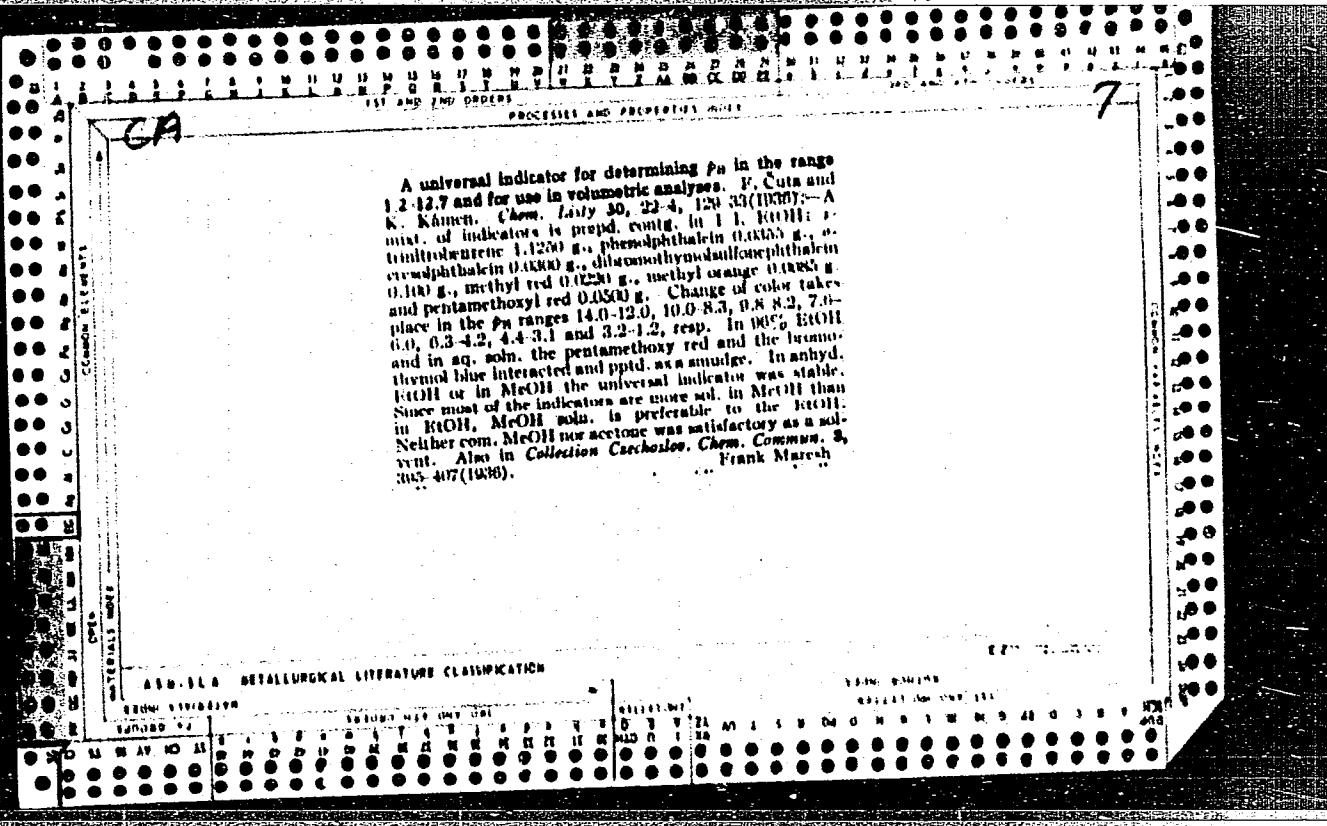
Universal indicator for the range p_1 , 1.2-12.7, and its use in volumetric analysis. J. Czaja and K. Kania (Chem. Listy, 1936, 30, 22-36, 120-133).— $\text{C}_6\text{H}_5(\text{NO}_2)_2$, 1-12; phenolphthalein 0.0305; σ -cresolphthalein 0.03; bromothymol blue 0.1; Methyl 0.022; Na-orange 0.0083; and 3 : 4 : 2' : 4' : 2'' penta-methoxybenzylcarbinol 0.5 g. are dissolved in a liter of MeOH , and the solution is made exactly neutral with eq. NaOH . The indicator is unstable when made up in EtOH instead of MeOH . Examples of its application to volumetric analysis are given, and a colour scale is appended, enabling p_1 values from 1.2 to 12.7 to be read with an error of ± 0.2 . R. T.

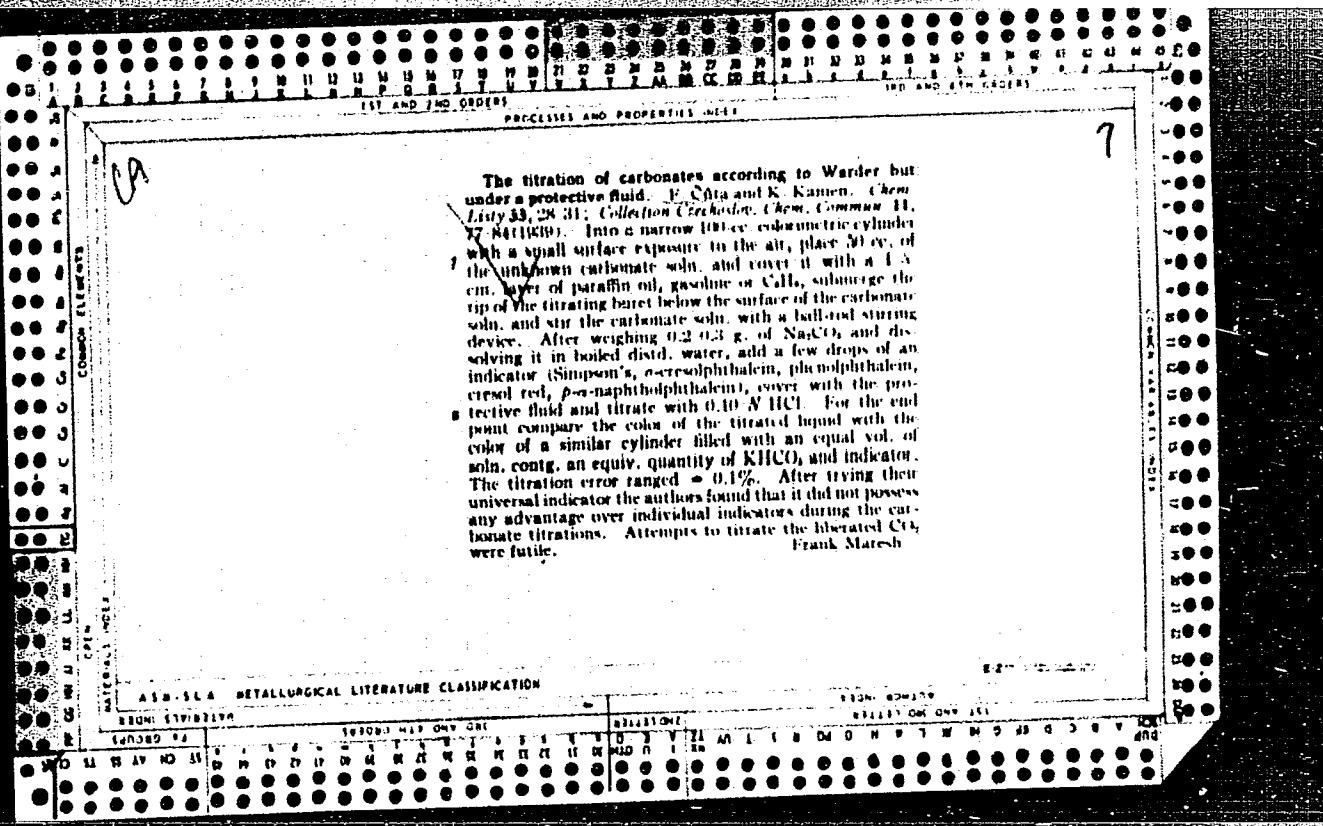
100-104 METALLURGICAL LITERATURE CLASSIFICATION

Digitized by srujanika@gmail.com

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00050942C





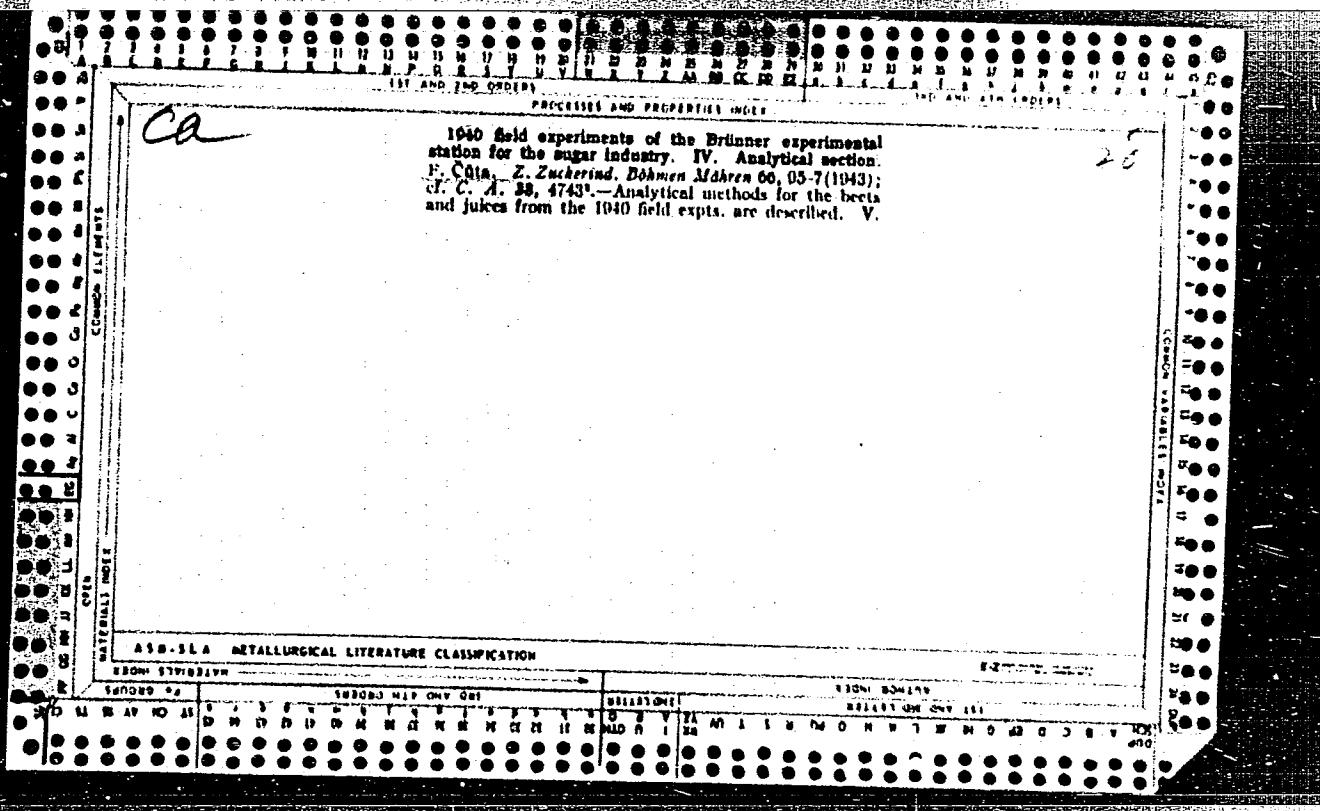


TEST AND TRACERS										TEST AND TRACERS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
PROCESSES AND PROPERTIES INDEX										INDEX																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
C9										7																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
<p>Trinitrobenzenes and nitramine as sensitive reagents for detecting SO_4^{2-}, S^{2-} and CN^-. Colorimetry of SO_4^{2-}, S^{2-} and CN^-. Fajansek, Cuta, and Miroslav Sevcik, <i>Chem. Listy</i> 37, 1-8, 22-7 (1943); <i>Chem. Zentral.</i> 1943, I, 2017-18. Some universal indicators contain trinitrobenzenes (I) and are useless when SO_4^{2-}, S^{2-} or CN^- is present. Nitramine(pivilmethylnitramine) (II) as an indicator has properties very similar to those of I and can also be used as indicator for detg. the above anions. 10 ml. solns. of I and II in MeOH are used and with II some saccharose is added as stabilizer. In solns. of pH 7-9, a red color is obtained with SO_4^{2-}, a reddish brown soon turning to yellow with S^{2-} and a yellow to reddish violet color (according to the concn.) with CN^-. The colors are sensitive to pH change and at pH 6-6 only S^{2-} reacts. The reactions can be used on a spot plate, but in 100-ml portions, sepn. can be effected with AgOH; the sulfite compd. cannot be shaken out but the others can. Complete directions are given for making tests when more than one reacting compd. is present. W. T. Hall</p>										<p>CODING VARIANTS INDEX</p>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
ASA-SLA METALLURGICAL LITERATURE CLASSIFICATION										EXTRAS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
1800-5500 1900 ONLY 481										1800-5500 1900 ONLY 481																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
1800	1801	1802	1803	1804	1805	1806	1807	1808	1809	1810	1811	1812	1813	1814	1815	1816	1817	1818	1819	1820	1821	1822	1823	1824	1825	1826	1827	1828	1829	1830	1831	1832	1833	1834	1835	1836	1837	1838	1839	1840	1841	1842	1843	1844	1845	1846	1847	1848	1849	1850	1851	1852	1853	1854	1855	1856	1857	1858	1859	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	20100	20101	20102	20103	20104	20105	20106	20107	20108	20109	20110	20111	20112	20113	20114	20115	20116	20117	20118	20119	20120	20121	20122	20123	20124	20125	20126	20127	20128	20129	20130	20131	20132	20133	20134	20135	20136	20137	20138	20139	20140	20141	20142	20143	20144	20145	20146	20147	20148	20149	20150	20151	20152	20153	20154	20155	20156	20157	20158	20159	20160	20161	20162	20163	20164	20165	20166	20167	20168	20169	20170	20171	20172	20173	20174	20175	20176	20177	20178	20179	20180	20181	20182	20183	20184	20185	20186	20187	20188	20189	20190	20191	20192	20193	20194	20195	20196	20197	20198	20199	20200	20201	20202	20203	20204	20205	20206	20207	20208	20209	20210	20211	20212	20213	20214	20215	20216	20217	20218	20219	20220	20221	20222	20223	20224	20225	20226	20227	20228	20229	20230	20231	20232	20233	20234	20235	20236	20237	20238	20239	20240	20241	20242	20243	20244	20245	20246	20247	20248	20249	20250	20251	20252	20253	20254	20255	20256	20257	20258	20259	20260	20261	20262	20263	20264	20265	20266	20267	20268	20269	20270	20271	20272	20273	20274	20275	20276	20277	20278	20279	20280	20281	20282	20283	20284	20285	20286	20287	20288	20289	20290	20291	20292	20293	20294	20295	20296	20297	20298	20299	20300	20301	20302	20303	20304	20305	20306	20307	20308	20309	20310	20311	20312	20313	20314	20315	20316	20317	20318	20319	20320	20321	20322	20323	20324	20325	20326	20327	20328	20329	20330	20331	20332	20333	20334	20335	20336	20337	20338	20339	20340	20341	20342	20343	20344	20345	20346	20347	20348	20349	20350	20351	20352	20353	20354	20355	20356	20357	20358	20359	20360	20361	20362	20363	20364	20365	20366	20367	20368	20369	20370	20371	20372	20373	20374	20375	20376	20377	20378	20379	20380	20381	20382	20383	20384	20385	20386	20387	20388	20389	20390	20391	20392	20393	20394	20395	20396	20397	20398	20399	20400	20401	20402	20403	20404	20405	20406	20407	20408	20409	20410	20411	20412	20413	20414	20415	20416	20417	20418	20419	20420	20421	20422	20423	20424	20425	20426	20427	20428	20429	20430	20431	20432	20433	20434	20435	20436	20437	20438	20439	20440	20441	20442	20443	20444	20445	20446	20447	20448	20449	20450	20451	20452	20453	20454	20455	20456	20457	20458	20459	20460	20461	20462	20463	20464	20465	20466	20467	20468	20469	20470	20471	20472	20473	20474	20475	20476	20477	20478	20479	20480	20481	20482	20483	20484	20485	20486	20487	20488	20489	20490	20491	20492	20493	20494	20495	20496	20497	20498	20499	20500	20501	20502	20503	20504	20505	20506	20507	20508	20509	20510	20511	20512	20513	20514	20515	20516	20517	20518	20519	20520	20521	20522	20523	20524	20525	20526	20527	20528	20529	20530	20531	20532	20533	20534	20535	20536	20537	20538	20539	20540	20541	20542	20543	20544	20545	20546	20547	20548	20549	20550	20551	20552	20553	20554	20555	20556	20557	20558	20559	20560	20561	20562	20563	20564	20565	20566	20567	20568	20569	20570	20571	20572	20573	20574	20575	20576	20577	20578	20579	20580	20581	20582	20583	20584	20585	20586	20587	20588	20589	20590	20591	20592	20593	20594	20595	20596	20597	20598	20599	20600	20601	20602	20603	20604	20605	20606	20607	20608	20609	20610	20611	20612	20613	20614	20615	20616	20617	20618	20619	20620	20621	20622	20623	20624	20625	20626	20627	20628	20629	20630	20631	20632	20633	20634	20635	20636	20637	20638	20639	20640	20641	20642	20643	20644	20645	20646	20647	20648	20649	20650	20651	20652	20653	20654	20655	20656	20657	20658	20659	20660	20661	20662	20663	20664	20665	20666	20667	20668	20669	20670	20671	20672	20673	20674	20675	20676	20677	20678	20679	20680	20681	20682	20683	20684	20685	20686	20687	20688	20689	20690	20691	20692	20693	20694	20695	20696	20697	20698	20699	20700	20701	20702	20703	20704	20705	20706	20707	20708	20709	20710	20711	20712	20713	20714	20715	20716	20717	20718	20719	20720	20721	20722	20723	20724	20725	20726	20727	20728	20729	20730	20731	20732	20733	20734	20735	20736	20737	20738	20739	20740	20741	20742	20743	20744	20745	20746	20747	20748	20749	20750	20751	20752	20753	20754	20755	20756	20757	20758	20759	20760	20761	20762	20763	20764	20765	20766	20767	20768	20769	20770	20771	20772	20773	20774	20775	20776	20777	20778	20779	20780	20781	20782	20783	20784	20785	20786	20787	20788	20789	20790	20791	20792	20793	20794	20795	20796	20797	20798	20799	20800	20801	20802	20803	20804	20805	20806	20807	20808	20809	20810	20811	20812	20813	20814	20815	20816	20817	20818	20819	20820	20821	20822	20823	20824	20825	20826	20827	20828	20829	20830	20831	20832	20833	20834	20835	20836	20837	20838	20839	20840	20841	20842	20843	20844	20845	20846	20847	20848	20849	20850	20851	20852	20853	20854	20855	20856	20857	20858	20859	20860	20861	20862	20863	20864	20865	20866	20867	20868	20869	20870	20871	20872	20873	20874	20875	20876	20877	20878	20879	20880	20881	20882	20883	20884	20885	20886	20887

CA

2

✓ Radomil Hase, F. Céleste. Chem. Listy 37, 81-2(1943).--
A short biography.
Milos Hudlicky



CA

28

An attempt to estimate the activity of calcium ions in the
beet sugar juices. František Čála and Miroslav Ševčík.
Chem. Listy 38, 198-200 (1944).—The activity of Ca^{++}
in sucrose soln., sugar juices, and molasses contg. 10%
of sucrose was estd. by means of Harnapp's electrode
(C.A. 38, 2163) ($\text{Hg}|\text{Hg}_2(\text{COO})_2|\text{Ca}(\text{COO})_2|\text{Ca}^{++}$). The
activity of Ca ions decreases in the series: sucrose soln. >
 $\text{H}_2\text{O} >$ light juice > heavy juice > molasses. The juices
act as Ca regulators, their pH being important. The sub-
stance responsible for lowering the activity of Ca ions was
not discovered. Milos Hudlický

Brabo

C-4 General Technique v last
appar.

(General - Miscellaneous)

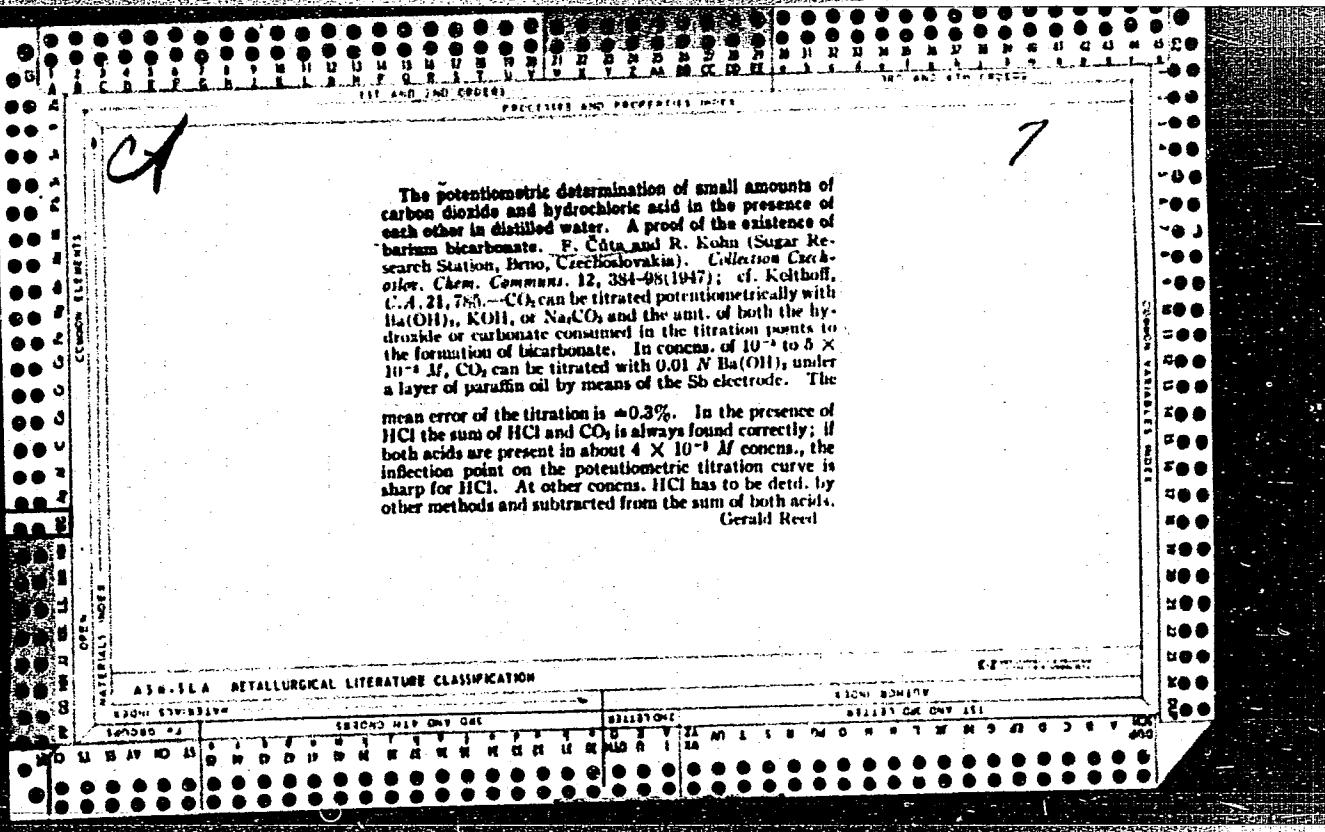
3144. Potentiometric titration of small amounts of carbonic acid and hydroxide salts present together in distilled water. Existence of barium bicarbonate. P. Cahn and R. Kuhn (Chem. Listy, 1945, 39, 17-33).—Aq. CO_2 titrated electrometrically (5b electrode) with 0.01N $\text{Ba}(\text{OH})_2$; the end-point is at pH 7.0 for the reaction $\text{Ba}(\text{OH})_2 + \text{HCO}_3^- \rightarrow \text{Ba}(\text{HCO}_3)_2$, and the mean error is $\pm 0.3\%$ for 0.0001—0.008M CO_2 . The titration should be completed rapidly. In view of the further slow reaction $\text{Ba}(\text{HCO}_3)_2 \rightarrow \text{BaCO}_3 + \text{H}_2\text{O} + \text{CO}_2$. Titration of solutions of CO_2 in dil. HCl is possible when the concns. of HCl and CO_2 are approx. 0.004M; the experimental error becomes considerable at other relative and absolute concns.

R. TRUSON.

The potentiometric determination of small amounts of carbon dioxide and hydrochloric acid in the presence of each other in distilled water. A proof of the existence of barium bicarbonate. F. Číta and R. Kohn (Sugar Research Station, Brno, Czechoslovakia). *Czechoslovak. Chem. Commun.*, 12, 384-398 (1947); cf. Kelthol. *C.A.*, 21, 785. CO_2 can be titrated potentiometrically with $\text{Ba}(\text{OH})_2$, KOH , or NaCO_3 and the sum of both the hydroxide or carbonate consumed in the titration points to the formation of bicarbonate. In concns. of 10^{-3} to 8×10^{-4} M, CO_2 can be titrated with 0.01 N $\text{Ba}(\text{OH})_2$ under a layer of paraffin oil by means of the Sb electrode. The

mean error of the titration is $\pm 0.3\%$. In the presence of HCl the sum of HCl and CO₂ is always found correctly; if both acids are present in about $4 \times 10^{-3} M$ concns., the inflection point on the potentiometric titration curve is sharp for HCl. At other concns. HCl has to be dectd. by other methods and subtracted from the sum of both acids.

Gerald Reetl



1540. Distillation method for direct determination of carbon dioxide. P. Cato and K.C. Maxson (Coll. Czech. Chem. Comm., 1948, 13, 232-237). Apparatus is described for the determination of CO₂ by decomposing the sample with a non-volatile acid. The CO₂ is boiled off and absorbed in NaOH or Ba(OH)₂. Titration is made in a volumeter. Excess of hydroxide is titrated, the solution being protected from atm. CO₂ by paraffin oil layer. Sources of error are discussed, and the accuracy is illustrated by blank tests and by tests on known samples. From these results, an average accuracy of $\pm 0.03\%$ is claimed for samples containing 0.03-0.10 g. of CO₂. R. R. BALDWIN.

Br. Abs.

C-1, Inorganic, pure and applied

2616. [Use of trinitrobenzene and notramine as sensitive reagents for detection, and colorimetric estimation, of sulphites, sulphides, and cyanides. F. Cuta and E. Sevula (Coll. Trav. chim. Tchecosol., 1943, 13, 267-288 [in English]). At pH 8±1, 1:105-trinitrobenzene and methylpicrylnitramine give, in each case, a sensitive

colour test for SO_3^{2-} (reddish), S^{\cdot} (brownish-yellow, later turning to yellow), and CN^- (yellowish, becoming violet at higher concn. of cyanide). The reagents are used as 1% solutions in methanol. In 0.1N NH_3 -acetic acid buffer, photometric determinations give the min. detection limits for detection as: SO_3^{2-} , 1 in 400,000; S^{\cdot} , 1 in 70,000; CN^- , 1 in 40,000 with trinitrobenzene and higher dilutions with nitramine. Spot tests are less sensitive. The substance produced with CN^- can be extracted with aq. NH_3 to form a purple solution. This enables the components of the binary mixtures $\text{CN}^-\text{SO}_3^{2-}$ and $\text{CN}^-\text{S}^{\cdot}$ to be detected. The substance formed by S^{\cdot} remains in the aq. layer, but that formed by S^{\cdot} changes to a yellow colour after 5-10 min. and can then be extracted. For separation it is therefore important to carry out extraction immediately after addition of the reagent to $\text{CN}^-\text{S}^{\cdot}$ mixtures. Detection of the components of $\text{SO}_3^{2-}\text{S}^{\cdot}$ mixtures is done by extraction with aq. NH_3 , 15 min. after addition of the reagent. A suspected ternary mixture is shaken with Sb_2O_3 (1 g. to 10 ml. of solution) for 5-8 min., filtered, treated with the reagent, and immediately extracted 5 times with amyl alcohol. Presence of CN^- is shown by an orange colour in the alcohol. SO_3^{2-} by a red-violet colour in the aq. layer, and S^{\cdot} by a yellow colour on the Sb_2O_3 . Zn, Cd, Hg, Ag, and CNS^- interfere. The reagents can also be used for colorimetric determination of SO_3^{2-} , S^{\cdot} , and CN^- provided the method carried out rapidly and a photoelectric colorimeter or a Fulfrich photometer is used. Accuracy is about $\pm 2\%$ for SO_3^{2-} and CN^- , and about $\pm 5\%$ for S^{\cdot} . J. J. Kirline.

CA

Estimation of vitamin B_12 and related factors W. E. J.
Cuthbertson Abstracts Committee, 1st Intern. Congr. Bio-
chem., 1939, 79-81; cf. C.A. 35, 23584.—The plate assay
method (cf. C.A. 42, 7008a) was adapted to the detn. of
vitamin B_12 activity, by using the medium of Roberts and
Snell (C.A. 40, 44104) in *Lactobacillus lactis*. Colonies of
L. lactis grown on this medium form "zones of exhibition,"
the diams. of which are proportional to the vitamin B_12
concn. Two red substances from liver exts. which are ac-
tive against pernicious anemia (one is identical with vita-
min B_12) were obtained in partition chromatography with
 Bu_2OH . If the developed paper was applied to the surface
of a vitamin B-deficient agar medium contg. *L. lactis*, the
substances with the vitamin B_12 activity produced zones of
growth. This technique could detect 0.005 to 0.1 γ of the
red factors. Liver exts. showed 2 elliptical growth zones
corresponding to the two red factors; one was close to the
origin and the other farther away. Still further from the
origin there was an attenuated faint growth in 1 or 2 zones;
of these, the first was due to an unidentified substance and
the second to thymidine. Animal protein factor caused
2 zones of strong growth and 1 or 2 of faint growth in the

same relative positions as the zones from the liver ext.
Preps. from 3 different bacteria showed pink bands on silica
partition chromatograms; microbiol. activity was concd
at these sites. These bacteria elaborate vitamin B_12 , the
2nd red factor, and thymidine. A combination of partition
chromatography and plate assay can be used to eliminate
interference from substances similar to thymidine. The
plate method permits vitamin B_12 to be readily distinguished
from thymidine because of the difference in the growth
zones.

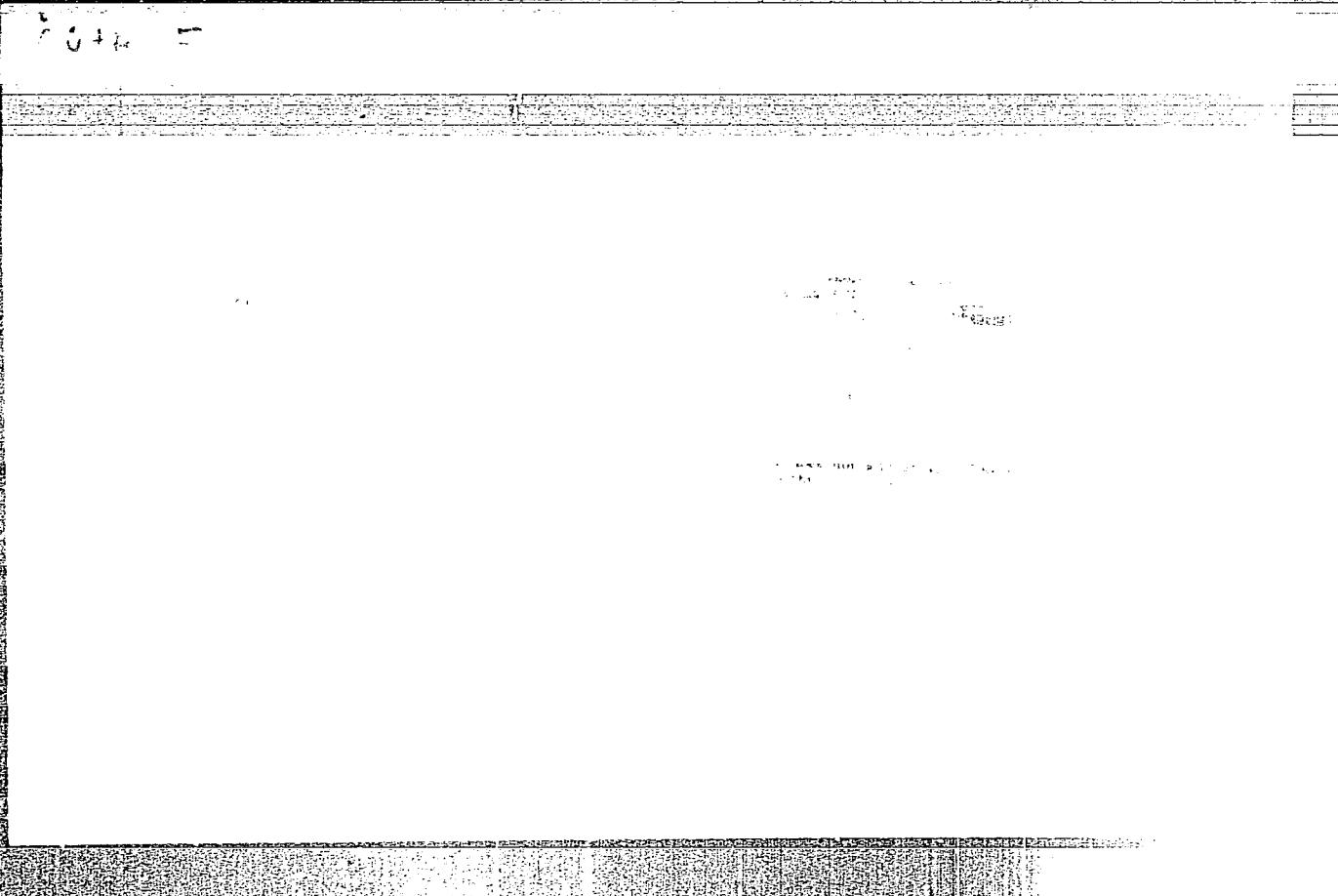
Theresa McKee

CH

7

Potentiometric determination of hydroxide or bicarbonate in sodium carbonate by Winkler's method. F. Čáta and Z. Velebil (Tech. Univ., Prague). *Chem. Listy* 44, 103 (1950). Winkler's method was modified for potentiometric titration. By elimination of atm. CO₂ and efficient stirring the titration of the hydroxide remaining after the pptn. with BaCl₂ is quant. Adsorption of the hydroxide on BaCO₃ or formation of acidic or basic Ba carbonates was not observed. By this method no Na₂O or Na₂CO₃ was found in the assay of Na₂CO₃ prepd. according to Lunge (Z. *angew. Chem.* 17, 195, 225, 265 (1904)) as an analytical standard. M. Hudlický

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00050942



APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00050942C

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00050942

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00050942(

SORM, Frantisek, akademik; MASTOVSKY, Otakar; KASPAR, Jan; SIRACKY, Andrej;
VANA, Josef; ZACHOVAL, Ladislav; RASKA, Karel; BLASKOVIC, Dionyz,
akademik; WICHTERLE, Otto, akademik; PRANTL, Ferdinand; CUTA, Frantisek;
JERIE, Jan; HENNER, Kamil, akademik; CAPEK, Ladislav; LINK, Frantisek;
STRNAD, Julius

Report on the activities of the Czechoslovak Academy of Sciences made
at its 12th General Assembly, and the discussion. Věstnik CSAV 70 no.1:
26-34 '61.

1. Namestek prezidenta Ceskoslovenska akademie ved (for Sorm).
2. Clen korespondent Ceskoslovenske akademie ved (for Mastovsky,
Kaspar, Siracky, Vana, Zachoval, Raska, Prantl, Cuta, Jerie,
Capek, Link and Strnad). 3. Predseda Slovenskej akademis vied
(for Siracky).