

O-4, General Technique & Lab. Exp.  
(General - Physical)

Br. Abs.

2448. Measurement of mechanical properties of thixotropic systems with liquid suspensions. M. G. Koltashov (Colloid. J. USSR, 1969, 12, 416-418). An apparatus is described for measuring the structure-mechanical properties of thixotropic suspensions, based on the tangential plate displacement method. This consists essentially of a disc which is suspended vertically in the system under investigation from a thin bakelite plate by means of a thin steel wire, a microscope which can be observed through a microscope being imprinted on the bakelite. The scale is in turn connected via a

spring to a hoisting mechanism, whereby the disc can be drawn out of the system investigated. The upward velocity can be adjusted to 5-8, 19, and 30 cm per sec. For a normal liquid a plot of micro-scale divisions against time is a straight line passing through the origin, the slope varying with the rate of withdrawal, whilst for the systems examined the motion is jerky and the graph is in the form of a series of steps. Two stop-watches are used in conjunction with the apparatus, one for measuring the overall time and one for measuring the jerks or steps. W. H. HARRIS.

А. С. Л. С. Н. С. , IV. 6.

KOLASHEV, N.G., dotsent; MARATSUTSEVA, G.V.

Structural and mechanical characteristic of lead plaster. Apt.delo  
6 no.2:14-17 Mr-Apr '57. (MIRA 10:6)

1. Iz Molotovskogo farmatsevticheskogo instituta.  
(OINTMENTS)

KOLTASHEV, N.G.

Rheological characteristics of ointments. Apt.delo 8 no.3:  
15-19 Ky-Je '59. (MIRA 12:8)

1. Iz Permskogo farmatsvticheskogo instituta.  
(RHEOLOGY) (OINTMENTS)

KOLTASHEV, N.G.; ZUBKOVA, M.F.; MARATSUTSEVA, G.V.

Determination of the viscosity of thick extracts by means of a  
tangentially displaced plate. Apt. delo 9 no. 5:20-22 S-0 '60.  
(MIRA 13:10)

1. Permskiy farmatsevticheskiy institut.  
(VISOSIMETRY)

KOLTASHEV, N.G.

Dynamic shear stress in weak-structured pharmaceutical preparations.  
Apt. delo 10 no.3:29-32 My-Je '61. (MIRA 14:7)

1. Permskiy farmatsevticheskiy institut.  
(PHARMACY)

KOLTASHEV, N.G.

Investigation of systems with a true viscosity accordint to the  
method of tangential displacement of a lamina. Trudy Perm. farm.  
inst. no.1:162-167 '59. (MIRA 15:1)

1. Permskiy farmatsevticheskiy institut, kurs fizicheskoy kolloidnoy  
khimii.

(VISCOSITY)

KOLTASHEV, N.G.

Tangentially displaced lamina as an instrument for determining  
relaxation and viscosity in an unsteady flow. Trudy Perm. farm.  
inst. no.1:168-174 '59. (MIRA 15:1)

1. Permskiy farmatsevticheskiy institut, kurs fizicheskoy  
kolloidnoy khimii. (VISCOSITY)

KOLTAV, E.

Strong focusing in low-powered ionoptical systems. p. 182.

FIZIKAI SZEMLE. (Eotvos Lorand Fizikai Tarsulat) Budapest, Hungary, Vol. 9, no. 6,  
June 1959.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 11, November 1959.  
Uncl.



HORVATH, Imre; KOLTAY, Albert

"Photothermostat" for ecological and physiological examinations. Botan kozl 50 no.4:185-188 D'63.

1. Agrartudományi Egyetem Növénytan-Élettani Tanszék,  
Gödölle.

KOLTAY, Arpad, dr.

Effect of soil cultivation on plants as well as on their physical  
and physiological activity. Elovilag 7 no.1:26-30 Ja-F '62.

KOLTAJ, L.

Measurement of the electric field of Van de Graaff generators in electrolytic tanks, p. 213, MAGYAR FIZIKAI FOLYOIRAT, (Magyar Tudományos Akademia) Budapest, Vol. 4, No. 3, 1956

SOURCE: East European Accessions List (EEAL) Library of Congress, Vol. 5, No. 11, November 1956

KOLTAY, Eds

A new principle of constructing high-power particle accelerators.  
Fiz szemle 9 no.5:139-145 My '59.

1. Kossuth Lajos Tudományegyetem Kísérleti Fizikai Intézete, Debrecen.

KOLTAY, Ede

Strong focusing in low-energy ion optical systems. Fiz szemle 9 no.6:  
182-187 Je '59.

1. Kossuth Lajos Tudományegyetem Kísérleti Fizikai Intézete, Debrecen.

BANHALMI, Jozsef; KOLTAY, Ede

Automatic level regulation of cooling traps. Magy fiz folyoir 8 no.3:  
217-221 '60. (EEAI 10:1)

1. Kossuth Lajos Tudomanegyetem Kiserleti Fizikai Intezete,  
Debrecen.  
(Electrostatic accalerators)

KOLTAY, Ede

Rotation voltmeter with reference space for the slow voltage  
stabilization of Van de Graaf's generator. Magy fiz folyoir  
10 no.3:145-152 '62.

1. Kossuth Lajos Tudományegyetem Kísérleti Fizikai Intézet,  
Debrecen.

KOLTAY, Ede

Investigation of neutron-producing nuclear processes on light nuclei. Fiz szemle 13 no.2:42-51 F '63.

1. Magyar Tudományos Akademia Atommag Kutato Intezete, Debrecen.



KOLTAY, E.

Investigation on the excitation function of the nuclear reaction  $\text{Be}^9(d,n)\text{B}^{10}$  by artificially accelerated particles in the 0,5-1,6 MeV energy range. Acta phys Hung 16 no.2:93-100 '63.

1. Institute of Experimental Physics, Kossuth Lajos University, Debrecen. Presented by A. Szalay.

HANSEN, O.; KOLTAY, E.; MADSEN, B.

25 23  
Studies on the Mg (d,  $\alpha$ ) Na nuclear reaction.  
ATOMKI korsz 5 no. 3/4 1-10 D '63.

1. Institute for Theoretical Physics, University of Copenhagen, Denmark (for Hansen and Madsen).
2. Institute of Nuclear Research of the Hungarian Academy of Sciences, Debrecen (for Koltay).

KOLTAY, Ede; SZABO, Gyula

Electronoptical interpretation of quadruple lenses with  
asymmetrized field. ATOMKI kozl 6 no.3/4:105-129 D '64.

GYARMATI, Borbala; KOLTAY, Ede

Estimate of the average life span of  $Al^{27}$  nucleus excited  
to 20 MeV on the basis of evaluating the Ericson's fluctuations.  
ATOMKI kozl 6 no.3/4:131-136 D '64.

KISS, Arpad; KOLTAY, Ede

Model experiments for demonstrating electron paths. Fiz  
szemle 14 no.10:295-302 0 '64.

1. Institute of Experimental Physics, Lajos Kossuth University,  
Debrecen (for Kiss). 2. Institute of Nuclear Research, Hungarian  
Academy of Sciences, Debrecen (for Koltay).

KOLTAY, Ede

Particle accelerators in the Nuclear Research Institute of the  
Hungarian Academy of Sciences. Fiz szemle 15 no.12:373-377  
D '64.

1. Nuclear Research Institute of the Hungarian Academy of  
Sciences, Debrecen.

L 00279-66 EWT(1)/EPA(w)-2/T/EWA(m)-2 IJP(c) AT

ACCESSION NR: AP5023854

HU/0016/64/000/010/0295/0302

AUTHOR: <sup>44.55</sup> Kliss, A.; <sup>44.55</sup> Koltay, E.

TITLE: Model experiments for demonstrating electron paths

SOURCE: Fizikai szemle, no. 10, 1964, 295-302

TOPIC TAGS: electron optics, electron motion, particle trajectory, nuclear model

ABSTRACT: Means for demonstrating the basic principles of electron optics in general, and of electron paths in particular, were described for the benefit of instructors with especial reference to the rubber-membrane model (described by KLEYNEN, P. H. J. A.; Phil. Tech. Rund., Vol 2, 1937, p 338). The techniques involved were discussed and some typical examples were presented. Orig. art. has. 15 figures and 10 formulas. <sup>21.44.55</sup>

ASSOCIATION: Kliss--Kossuth Lajos Tudományegyetem Kísérleti Fizikai Intézete, Debrecen (Institute for Experimental Physics at Kossuth Lajos Scientific University); Koltay--MTA Atommag Kutató Intézete, Debrecen (Research Institute for Nuclear Sciences, MFA)

Card 1/2

L 00279-66

ACCESSION NR: AF5023854

SUBMITTED: 00

ENCL: 00

SUB CODE: NF, OP

HR REF SOV: 000

OTHER: 007

JPRS

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Card 2/2



L 2259-66 EWT(m)/EPA(w)-2/EWA(it)-2 IJP(o)

ACCESSION NR: AP5013276

HU/0016/64/000/012/0375/0377

AUTHOR: Koltay, Ede

TITLE: Particle accelerators in the ATOMKI (Atommag Kutato Intezet; Research Institute for the Atomic Nucleus)

SOURCE: Fizikai szemle, no. 12, 1964, 373-377

TOPIC TAGS: particle accelerator, nuclear engineering

ABSTRACT: The particle accelerators at ATOMKI were self-built. There are at the present time four units, viz., (1) a 100 keV unit with one-side rectification, (2) a 300 keV unit, a one-stage cascade generator, (3) a 800 keV unit, a four-stage cascade generator, and (4) a 1.8 MeV unit, a Van de Graaff-type generator. The principal parameters, applications, and performance characteristics of these units were discussed. No references. Orig. art. has: 4 figures, 2 tables.

Card 1/2

L 2259-66

ACCESSION NR: AP501.376

ASSOCIATION: MTA Atommagkutató Intézet, Debrecen (Research Institute for the Atomic Nucleus, MTA)

SUBMITTED: 00

ENCL: 00

SUB CODE: NP

NO REF SOV: 000

OTHER: 001

JPRS

Card *dg*  
*2/2x*

HOLTAY E., FÖLDI M. and KOVACH A.G.B.

1. med. Klin., physiol. Inst., med. Univ., Budapest. \*Wirkung von isolierter Kopfhypoxämie auf die Na-Ausscheidung. Effect of hypoxaemia confined to the head on Na excretion ACTA PHYSIOL. ACAD. SCIENT. HUNG. (Budapest) 1954, 5/suppl. (66)

SO: EXCERPTA MEDICA - Section II, Vol. 7, No. 10

FOLDI, Mihaly, dr.; KOVACH, Arisztid, dr.; TAKACS, Lajos, dr.; KOLTAY, Edit.

Sodium excretion in hypoxemia; mechanism of central regulation  
of volume. *Magy. belorv. arch.* 7 no.6:179-89 Dec 54.

1. A Budapesti Orvostudományi Egyetem I. sz. Belklinikájának  
(igazgató dr. Ruzsnyák István egyetemi tanár)

(SODIUM, metabolism  
excretion in hypoxemia, central regulation, mechanism  
(Hun)

(ANOXIA, metabolism  
sodium excretion, central regulation, mechanism (Hun)

FOLDI, M.,; KOVACH, A.G.B.,; TAKACS, L.,; KOLTAY, E.

Sodium excretion in hypoxemia; central volume regulation  
mechanism. Acta med. hung. 8 no.1:19-24 1955.

I. I. Klinik fur innere Medizin, Physiologisches Institut und III.  
Klinik fur innere Medizin der Medizinischen Universitat, Budapest.

(SODIUM, in urine,  
in exper. cerebral anoxia)

(ANOXIA, experimental,  
cerebral, urinary sodium in)

(URINE,  
sodium in exper. cerebral anoxia)

KOLTAY, Edit

FOLDI, Mihaly, dr.; KOLTAY, Edit; REV, Judit, dr.; SOLTI, Ferenc, dr.;  
SZABO, Gyorgy, dr.; ZSOLDOS, Istvan, dr.

Effect of dibenamine on functional changes of the kidneys induced  
by decrease in volume of eventually circulating blood. Magy.  
belorv. arch. 9 no.3:90-92 June 56.

1. A Budapesti Orvostud. Egyetem I. sz. Belklinik. (igaz.:  
Rusznay, Istvan, dr. egyetemi tanar) kozl.

(KIDNEYS, physiol.

funct. changes induced by exper. decrease of volume  
of circ. blood & protective eff. of dibenamine in  
humans (Hun))

(BLOOD VOLUME

exper. decrease of circ. blood volume inducing changes  
in kidney funct. & protective eff. of dibenamine in  
humans (Hun))

(SYMPATHOLYTICS, eff.

dibenamine, protective eff. in funct. changes in kidneys  
induced by exper. decrease of circ. blood volume in humans  
(Hun))

FOLDI, Mihaly, dr.; SOLTI, Ferenc, dr.; MEGYESI, Klara, dr.; SZASZ, Judit, dr.;  
REV, Judit, dr.; KOLTAY, Edit

Effect of hypoxia on renal function in men. Magy. belorv. arch  
9 no.4:104-105 Aug 56.

1. A Budapesti Orvostudományi Egyetem I. sz. Belklinikájának  
(igazgató: Russnyak, Istvan, dr. egyetemi tanár közleménye.

(ANOXIA, exper.

eff. on renal funct. in men (Hun))

(KIDNEYS, physiol.

eff. of exper. anoxia on funct. in men (Hun))

KOLTAY, EDIT

FOLDI, M.; SOLTI, F.; KOLTAY, Edit; MEGYESI, K.; REV, J.; SZASZ, J.

Effect of hypoxia on renal function in kidney diseases. Magy.  
belorv. arch. 9 no.5:149-151 Oct 56.

1. A Budapesti Orvostudományi Egyetem I. sz. Belklinikájának  
(Igazgató: Russnyak, Istvan, dr. akadémikus, egyetemi tanár)  
közleménye.

(ANOXIA, eff.

on renal funct. in kidney dis. (Hun))

(KIDNEY DISEASES, physiol.

eff. of anoxia on renal funct. (Hun))





FOLDI, M.; RVE, J.; SOLTI, F.; SZABO, Gy.; ZSOLDOS, I.; KOLTAY, E.

Effect of dibenamine on antidiuresis and antisaluresis following the decreasing of effective circulating blood volume. Acta med. hung. 10 no.1-2:35-42 1956.

1. I. Medizinische Universitätsklinik, Budapest.

(BLOOD VOLUME

eff. of decrease of effective circulating blood volume on diuresis, antag. of inhib. by dibenamine (Ger))

(DIURESIS, physiol.

eff. of decrease of effective circulating blood volume & antag. of inhib. by dibenamine)

(SYMPATHOLYTICS, eff.

antag. of inhib. of diuresis by decrease of effective circulating blood volume (Ger))

KoL TAY, E.

Country : HUNGARY  
 Category: Human and Animal Physiology, Excretion  
 Abs Jour: MEDICAL, N. 19, 1958, 00913  
 Author : KISS, M.; Solti, Z.; Kov, J.; Kiss, J.; KISS, E.  
 Inst : Hungarian Academy of Sciences  
 Title : The Effect of Hypoxia on the Renal Function in Man.  
 Orig Pub: Acta med. Acad. sci. hung. 1956, 10, No 1-2, 43-47

Abstract: Inhalation of a mixture of 10% of O<sub>2</sub> and 90% of N<sub>2</sub> produced an increase in the rate of glomerular filtration, circulation of sodium, glomerular filtration and plasma flow through the kidneys and also an insignificant increase of the filtration fraction. The rapidity of the changes of the kidney function under the effect of hypoxia

Card : 1/2

and its return to normal values following its cessation confirm the neuro-reflex origin of these changes. --  
 G.A. Stoppanally

Card : 2/2

3-57



FOLDI, Mihaly, dr.; KOVACH, Arisztid, dr.; ROHEIM, Pal, dr.; PAPP, Miklos, dr.;  
KOLTAY, Edit

~~New ways of central neural volume regulation.~~ Orv. hetil. 97  
no.40:1107 30 Sept 56.

1. A Budapesti Orvostudományi Egyetem I. sz. Belklinikájának  
(igazgató: Rusnyak, Istvan, dr. egyet. tanár) és Eletti Intézetének  
(igazgató: Balint, Peter, dr. egyet. tanár) közleménye:

(BLOOD VOLUME

CNS regulation, eff. of exper. hypersalemia (Hun))

(SODIUM CHLORIDE, in blood

hypersalemia, exper., eff. on regulation of blood volume  
by CNS (Hun))

(CENTRAL NERVOUS SYSTEM, physiol.

regulation of blood volume, eff. of exper. hypersalemia  
(Hun))

KOLTAY, EDIT

FOLDI, Mihaly, dr.; SOLTI, Ferenc, dr.; KOLTAY, Edit; MEGYESI, Klara, dr.;  
REV, Judit, dr.; SZASZ, Judit, dr.

Effect of oxygen inhalation on renal function in cardiac patients.  
Orv. hetil. 97 no.44:1220-1222 28 Oct 56.

1. A Budapesti Orvostudományi Egyetem I. Sz. Belklinikájának  
(igazgató: Rusznyak, Istvan, dr. egyet. tanár) Közleménye.

(CONGESTIVE HEART FAILURE, physiol.

diuretic eff. of oxygen inhalation (Hun))

(DIURESIS, in various dis.

congestive heart failure, diuretic eff. of oxygen  
inhalation (Hun))

(OXYGEN, eff.

diuretic eff. of inhalation in congestive heart failure.  
(Hun))

KOLTAY, EDIT

FOLDI, Mihaly; PAPP, Miklos; SOLTI, Ferenc; KOLTAY, Edit

Problems of sodium retention in generalized lymphedema. *Magy. Tudom. Akad. Biol. Orv. Oszt. Kozl.* 8 no.3:287-291 1957.

1. A Budapesti Orvostudományi Egyetem I. sz Belklinikája és az MTA Kísérleti Orvostudományi Kutató Intézete Kóreltani Osztálya.

(LYMPHEDEMA, exper.

sodium retention in generalized lymphedema in dogs (Hum)).

(SODIUM, metab.

in exper. generalized lymphedema, retention in dogs (Hum))

KOLTAY, EDIT

FOLDI, Mihály, Dr.; ZSOLDOS, Istvan, Dr.; KOLTAY, Edit, PALINKAS, János, Dr.;  
REV, Judit, Dr.

Effects of acute diminution in the volume of actually circulating  
blood on kidney function in renal diseases. *Magy. belorv. arch.*  
10 no.2-3:43-45 Apr-June 57.

1..A Budapesti Orvostudományi Egyetem I sz. Belklinikájának (igazgató:  
Rusznayk Istvan dr. egyetemi tansz.) közleménye.

(LIVER DISEASES, *physiol.*)

eff. of acute diminution in volume of actually circulating  
blood on kidney funct. (Hun))



KOLTAY, Edit

FOLDI, Mihály, dr.; SOLTI, Ferenc, dr.; KOLTAY, Edit; REV, Judit, dr.

Effect of novurit on sweat glands. Orv. hetil. 98 no.25:676-677 23 June 57.

1. A Budapesti Orvostudományi Egyetem I. sz. Belklinikájának (igazgató: Ruzsnyak, István, dr. egyet. tanár) közleménye.  
(DIURETICS, MERCURIAL, eff.  
mercurophylline, on activity of sweat glands in normal persons & congestive heart failure (Hun))  
(SWEAT GLANDS, eff. of drugs on  
mercurophylline, on activity in normal persons & congestive heart failure (Hun))  
(CONGESTIVE HEART FAILURE, ther.  
mercurophylline, eff. on activity of sweat glands (Hun))

*Koltay, E.*

PAPP, Miklos, (as orvostudományok kandidátusa); NEMETH, Eva, P.; KOLTAY, Edit

Studies on blood and lymph lipase activity in experiments on dogs. *Magy. Tudom. Akad. Orv. Oszt. Kozl.* 9 no.1:87-92 1958.

1. A Magyar Tudományos Akadémia Kísérleti Orvostudományi Kutató Intézet Korelettani Osztálya és az Orvostudományi Egyetem II. sz. Sebészeti Klinikája.

(PANCREATIC DUCTS, *physiol.*

eff. of ligation on lipase activity in blood & lymph of dogs (Hun))

(LIPASES

in blood & lymph, eff. of ligation of pancreatic duct on activity in dogs (Hun))

(LYMPH

lipase activity, eff. of ligation of pancreatic duct in dogs (Hun))

KOVACH, A.; FOLD, M.; PAPP, M.; KOLTAY, E.

Effect of dibenamine and adrenalectomy on hypoxic hyponatruresis. *Magy. belorv. arch.* 11 no.2-3:75-77 Apr-June 58.

1. A Budapesti Orvostudományi Egységen Elettani Intézetének, I. sz. Belklinikájának és a Magyar Tudományos Akadémia Kísérleti Orvostudományi Kutató Intézetének közleménye.

(ANOXIA, exper.

inducing hyponatruresis, eff. of dibenamine & adrenalectomy in dogs (Hun))

(SODIUM, in urine

hyponatruresis induction by anoxia in dogs, eff. of dibenamine & adrenalectomy (Hun))

(SYMPATHOLYTICS, eff.

dibenamine on anoxia-induced hyponatruresis in dogs (Hun))

(ADRENALECTOMY, eff.

on anoxia-induced hyponatruresis in dogs (Hun))

NAKO, A.; SOITI, F.; FOLDI, M.; KOLTAY, N.

The effect of strophanthin on parotid secretion. Acta med. hung.  
12 no.3-4:295-298 1958.

1. 1st Department of Medicine and Department of Oto-Rhino-Laryngol-  
ogy, Medical University, Budapest.

(STROPHANTHIN, effects

on parotid saliva secretion)

(PAROTID GLANDS, eff. of drugs on

strophanthin on saliva secretion)

SOLTI, F.; MARTON, Rev. I .; KOHAY, E.

The effect of strophanthin on the secretion of sweat. Acta med. hung. 12 no.3-4:299-304 1958.

1. 1st Department of Medicine, Medical University, Budapest.

(STROPHANTHIN, effects

on potassium & sodium excretion in sweat)

(SWEAT

potassium & sodium excretion, eff. of strophanthin)

SOLFI, F.; REV, J.; MARTON, I.; REFI, Z.; KOLTAY, E.

The effect of dibenamine on the increased excretion of water, sodium and potassium in sweat caused by strophanthin. Acta med. hung. 12 no.3-4:305-309 1958.

1. 1st Department of Medicine, Medical University, Budapest.

(STROPHANTHIN, effects

on potassium & sodium excretion in sweat after dibenamine admin.)

(SYMPATHOLYTICS, effects

dibenamine on strophanthin-induced changes in potassium & sodium excretion in sweat.)

(SWEAT

potassium & sodium excretion, eff. of strophanthin after dibenamine admin.)

SOLTI, F.; MARTON, I.; KOZTAY, N.

The effect of strophanthin on the cerebral circulation and on the potassium household of the brain. Acta med. hung. 12 no.3-4:311-315 1958.

1. 1st Department of Medicine, Medical University, Budapest.
  - (STROPHANTHIN, effects  
on cerebral circ. & potassium metab. in dogs)
  - (BRAIN, eff. of drugs on  
strophanthin on circ. & potassium metab. in dogs)
  - (POTASSIUM, metab.  
brain, eff. of strophanthin in dogs)

Koltay, E.

PAPP, M.; NEMETH, P.E.; KOLTAY, E.

Studies on the lipase activity of blood and lymph in dogs. Acta physiol. hung. 14 no.2:149-154 1958.

1. Forschungsinstitut für Experimentelle Medizin der Ungarischen Akademie der Wissenschaften, Abteilung für Pathophysiologie, und II. Chirurgische Klinik der Medizinischen Universität, Budapest.

(PANCREATIC DUCTS, physiol.

eff. of ligation on blood & lymph lipase activities in dogs (Ger))

(LIPASES

in blood & lymph, eff. of ligation of pancreatic ducts on activities in dogs. (Ger))

(LYMPH

lipase activity, eff. of ligation of pancreatic ducts in dogs (Ger))



KOVACH, A.G.B.; FOLDI, M.; MENYHART, J.; ERDELYI, A.; KOLTAY, E.

Effect of dibenamine on renal function in dogs with ischemic shock.  
Acta physiol. hung. 14 no.3:239-245 1958.

1. Institute of Physiology and 1st Department of Medicine, Medical University, Budapest.

(SYMPATHOLYTICS, eff.

dibenamine on kidney funct. in ischemic shock in dogs)

(KIDNEYS, eff. of drugs on

dibenamine on funct. in ischemic shock in dogs)

(SHOCK, exper.

eff. of dibenamine on kidney funct. in ischemic shock in dogs)

SOLTI, Ferenc, Dr.; FOLDI, Mihaly, Dr.; NAKO, Andras, Dr.; KOLTAY, Edit

Effect of novurit on the secretion of the parotid. Orv. hetil. 99 no.33:  
1127-1128 17 Aug 58.

1. A Budapesti Orvostudományi Egyetem I. sz. Belklinikajának (igazgató:  
Rusznayk Istvan dr. egyet. tanár) és Ful-orr-gegeklinikajának (igazgató:  
Varga Gyula dr. egyet. tanár) közleménye.

(DIURETICS, MERCURIAL, eff.

mercurophylline on parotidean secretion (Hun))

(PAROTID GLAND, eff. of drugs on

mercurophylline on secretion (Hun))

FOLDI, Mihaly, az orvostudományok doktora; KOVACH, Arisztid, az orvostudományok kandidátusa; PAPP, Miklos, az orvostudományok kandidátusa; ~~KOLTAY Edit~~; SOMLYAI, Lajos

Naturiuresis of central origin caused by the extract of the hypophysis posterior lobule (piton). Biol orv kozl MTA 11 no.2/3:293-305 '60.  
(EEAI 10:5)

1. A Budapesti Orvostudományi Egyetem I. sz. Belklinikája és Kísérleti Kutató Laboratóriuma, a Magyar Tudományos Akadémia Kísérleti Orvostudományi Kutató Intézete.

(BLOOD)  
(PITUITARY BODY)  
(SODIUM)

SOLTI, F.; KOLTAI, E.; MARTON, L.

Effect of strophanthin on blood circulation and potassium metabolism in the brain. Kiserletes Orvostud. 12 no.2:126-130 Ap '60.

1. Budapesti Orvostudományi Egyetem I. sz. Belklinikája.  
(BRAIN pharmacol.)  
(STROPHANTHIN pharmacol.)  
(POTASSIUM metab.)

SOLTI, F.; FOLDI, M.; NAKO, A.; KOLTAY, E.

Effect of acetazolamide (fomurit) on secretion of the parotid glands. Kiserletes Orvostud. 12 no.2:195-197 Ap '60.

1. Budapesti Orvostudományi Egyetem I. sz. Belklinikája és Ful-  
Orr-Gégklinikája.

(ACETAZOLAMIDE pharmacol.)

(PAROTID GLAND pharmacol.)

SOLTI, F.; REV, J.; PREISICH, P.; KOLTAY, E.

Effect of nicotine on sweating. Acta med.hung.16 no.3:233-236  
'60.

I. Medizinische Klinik der Medizinischen Universität, Budapest.  
(SWEATING pharmacol)  
(NICOTINE pharmacol)

FOLDI, M.; KOVACH, A.G.B.; PAPP, N.; KOLTAY, Edit; SOMLYAI, L.

Reflex increase of sodium excretion elicited by posterior pituitary extract (Piton). Acta physiol.hung. 17 no.4:407-427 '60.

1. 1st department of medicine, Department of Experimental Research,  
Medical University Budapest, Institute of Experimental Medicine,  
Hungarian Academy of Sciences, Budapest.

(PITUITARY GLAND, POSTERIOR extracts)  
(SODIUM urine)

MONOS, E.; KOLTAY, Edit; KOVACH, A.G.B.

Adrenal blood flow and corticosteroid secretion. Pts.1-2.  
Acta physiol. acad. sci. Hung. 28 no.2:139-161 '65.

1. Experimental Research Laboratory, University Medical  
School, Budapest. Submitted August 5, 1964.



L 29391-66

ACC NR: AT6019809

SOURCE CODE: HU/2505/65/028/002/0139/0153

AUTHOR: Monos, Emil; Koltay, Edit; Kovach, Arisztid G. B.

33  
29

ORG: Experimental Research Laboratory, Medical University of Budapest (Budapesti Orvostudományi Egyetem, Kísérleti Kutató Laboratorium)

TITLE: Adrenal blood flow and corticosteroid secretion I. Acute effect of hypophysectomy on adrenal blood flow and cortical hormone secretion in the anesthetized dog

SOURCE: <sup>22</sup>Academiae scientiarum hungaricae. Acta physiologica, v. 28, no. 2, 1965, 139-153

TOPIC TAGS: hormone, dog, blood circulation, corticosteroid, blood pressure, endocrinology

ABSTRACT: The acute effects of hypophysectomy on corticosteroid secretion, adrenal blood flow, aortic blood flow at the level of the diaphragm and below the origin of the renal arteries, as well as on arterial blood pressure were investigated in dogs under pentobarbital anesthesia. In spite of the marked decrease in hydrocortisone and corticosterone secretion, the adrenal blood flow remained unchanged or was elevated. The arterial blood pressure decreased considerably in all cases. The average blood flow of the abdominal organs or posterior part of the body remained unchanged; the average peripheral resistance showed a decrease that was 15-20 per cent less than that in the adrenals.

Card 1/2.

Card 2/2 CV

L 29392-66

ACC NR: AT6019810

SOURCE CODE: HU/2505/65/028/002/0155/0161

AUTHOR: Kovach, Arisztid G. B.; Monos, Emil; Koltay, Edit

32

ORG: Experimental Research Laboratory, Medical University of Budapest (Budapesti Orvostudományi Egyetem, Kísérleti Kutató Laboratorium)

BT1

TITLE: Adrenal blood flow and corticosteroid secretion II. Effect of oxytocin on adrenal blood flow and corticoid secretion before and after acute hypophysectomy in the dogSOURCE: Academiae scientiarum hungaricae. Acta physiologica, v. 28, no. 2, 1965, 155-161

TOPIC TAGS: blood circulation, corticosteroid, dog, hormone, endocrinology, blood pressure

ABSTRACT: The effect of intravenously-infused oxytocin on adrenal blood flow, hydrocortisone and corticosterone secretion, the blood flow in abdominal organs and in the posterior part of the body, as well as on blood pressure was investigated in dogs before hypophysectomy and 1/2-1 hour after it. Given at a rate of 0.5 U/min, oxytocin increased the adrenal blood flow without increasing the corticosteroid secretion in both normal and hypophysectomized animals. In the control animals, there was a slight decrease in arterial blood pressure. Blood flow in the abdominal organs showed a tendency to increase in the normal and to decrease in the hypophysectomized dogs. The authors thank Mrs. Anna Borecsiczky Szasz and Miss Magda Kelemen for technical assistance. Orig. art. has: 1 figure and 2 tables. [Orig. art. in Eng.] [JPRS]

SUB CODE: 06 / SUBM DATE: 05Aug64 / ORIG REF: 003 / OTH REF: 015

Card 1/1 *CL*

KOLTAY, J. inz.; STEIN, F., inz.[translator]

Country water supply system in Hungary. Vod hosp 13 no.11:  
408-411 '63.

1. Ustredna sprava vodneho hospodarstva, Budapest (for  
Koltay)

FILATOV, E. S.; KOLTAY, L.; NESMEYANOV, A. N.

"Models of atom-molecule collisions and hot atom reactions."

report presented at IAEA Symp on Chemical Effects associated with Nuclear Reactions and Radioactive Transformations, Vienna, 7-11 Dec 64.

PROCESS AND PROPERTIES INDEX

116

*PA.*

The change of alkaline phosphatase activity in the kidneys of rats treated with derivatives of aminobenzoic acid. Preliminary publication. Miklós Koltay, Kálmán Kovács, Mária Majoros, Bénes Hatmágyi and Tünde Kékemen. *Orvosi Hetilap* 90, 382-3 (1949). Fifteen rats were kept on a mixed diet and treated (1) 4 times daily for 96 hrs. with subcutaneous injections of 0.1 g. Na p-aminobenzoate, (2) 4 times daily for 72 hrs. with 0.1 g. p-aminosalicylic acid, (3) 3 times daily for 48 hrs. with 0.1 g. p-aminobenzoic acid, (4) 4 times daily for 96 hrs. with 0.1 g. p-aminohippuric acid, (5) for 96 hrs. with 110 mg./kg. of body wt. phlorstain, (6) 4 times daily for 48 hrs. with 1.0 cc. 5% dextrose intraperitoneally, (7) combined as under 1 and 6 simultaneously, and (8) untreated controls. All rats developed glycosuria except those of groups 4 and 8. The alk. phosphatase activity definitely increased in the epithelial cells of distalis tubuli of kidneys of rats of groups 1, 2 and 3.

István Fényi

ASM - S L A METALLURGICAL LITERATURE CLASSIFICATION

KOLTAY, M.

KOLTAY M., KÖRPÁSY B., HORVÁI R.

Adatok a cseregy gyomorbelosatornabol valo felszivodasnak  
kerdeseshez. [Data on tannin resorption from the gastro-  
intestinal tract] Kiserletes orvostud. 3:3 1951 p. 213-7.

1. Institute of Pathological Anatomy and Pathological His-  
tology, Szeged Medical University.

GLML 20, 10, Oct. 51

IVADY, G.; KOZTAY, M.

A simple test for the differentiation of human milk & cow's milk.  
Gyermekegygyasszat 4 no.9:279-281 Sept 1953. (CINL 25:5)

1. Doctors. 2. Children's Clinic (Director -- Prof. Dr. Karoly Waltner),  
Szegec Medical University.

*KOLTAY, M.*  
WALTNER, K.; DIOSZILAGYI, G.; KOLTAY, M.

Prophylaxis and therapy of interstitial pneumonia. Orv. hetil. 94 no.  
35:962-966 30 Aug 1953. (GIML 25:5)

1. Doctors. 2. Children's Clinic (Director -- Prof. Dr. Karoly Waltner).  
Szeged Medical University.



NO. 11, 1971

A preliminary report on the  
effects of the...  
and M...  
after...  
changes after...  
the...  
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KOLTAY, M.

KORPASSY, B.; TIBOLDI, T.; TOROK, J.; WALTNER, K.; GIOSSZILAGYI, G.;  
PALDY, L.; KOLTAY, M.

Interstitial pneumonia of the premature. Acta med. hung. 5 no.  
3-4:371-402 1954.

1. Institut für Pathologische Anatomie und Histologie der Medizinischen Universität, Szeged (for Korpassy, Tiboldi, Torok)
2. Kinderklinik der Medizinischen Universität, Szeged (for Waltner, Giosszilagy, Paldy, Torok, Koltay) (Eingegangen am 1. Juli 1953)  
(PNEUMONIA, in inf. & child.  
\*interstitial in premature, etiol., clin. aspects & pathol.)  
(INFANT PREMATURE, diseases  
\*pneumonia, in terstitial, etiol., clin. aspects & pathol.)

KOLTAY, Miklos, dr.; DIOSSZILAGYI, Gertrud, dr.; TOROK, Janos, dr.

The significance of the cell inclusions with special reference to the interstitial pneumonia. Orv. hetil. 95 no.46:1255-1262 14 Nov 54.

1. A Szegedi Orvostudományi Egyetem Gyermekklinikajának (igazgató: Waltner Károly, dr. egyet. tanár) közleménye.

(PNEUMONIA, in inf. & child

interstitial, cell inclusions in newborn, histol.)

(VIRUS DISEASES

inclusion dis. in interstitial pneumonia in premature & newborn, histol.)

IVADY, Gy.; KOLTAJ, M.; HEBREY, P.

Pathogenesis of Leiner's disease. Acta med.hung. 7 no.1-2:  
97-105 1955

1. Kinderklinik der Medizinischen Universität, Szeged.  
(ERYTHRODERMA DESQUAMATIVUM, experimental)

IVADY, Gyula, dr.; KOLTAY, Miklos, dr.; EBERTY, Piroska.

Investigations on pathogenesis of Leiner's disease. Orv. hetil. 96  
no.2:41-45 9 Jan 55.

1. A Szegedi Orvostudományi Egyetem Gyermekklinikájának (igazgató:  
Waltner Károly dr. egyet. tanár) közleménye.

(ERYTHRODERMA DESQUAMATIVUM, in infant and child,  
pathogen.)

KOIFAY, Miklos, dr.,; SZORADY, Istvan, dr.

Importance of tetracycline in pediatrics. Orv. hetil. 96 no.  
45:1234-1239 6 Nov 55.

1. A Szegedi Orvostudományi Egyetem Gyermekklinikájának (igazgató:  
Waltner Karoly dr. egyet. tanár) közleménye.

(PEDIATRIC DISEASES, therapy,  
tetracycline)

(TETRACYCLINE, therapeutic use,  
pediatric dis.)

SZORADY, Istvan, dr.; KOLTAY, Miklos, dr.

Experiences with chlorpromazine (largactil) therapy.  
Gyermekgyogyaszat 7 no.7:214-219 July 56.

1. A Szegedi Orvostud. Egyetem Gyermeklinik. (Igaz.:  
Waltner, Karoly, dr. egyetemi tanar) kozl.

(CHLORPROMAZINE, ther. use

pediatric dis., indic. & clin. evaluation (Hun))

(PEDIATRIC DISEASES, ther.

chlorpromazine, indic. & clin. evaluation (Hun))

KOLTAY, M.  
KOLTAY, Miklos, Dr.; ENDREI, Vera, Dr.; EBREY, Piroska

Clinical useability of the diphenylamine reaction with special regard to rheumatic fever. *Gyermekgyogyaszat* 8 no.5-6:162-169 May-June 57.

1. A Szegedi Orvostudományi Egyetem Gyermekklinika-jának közleménye  
(Igazgató: Walter Karoly dr. egyetemi tanár)

(ANILINE DYES, in blood

phenylaniline level, diag. significance in rheumatic fever in child. & in other pediatric dis. (Hun))

(RHEUMATIC FEVER, blood in

phenylaniline level, diag. significance (Hun))

(PEDIATRIC DISEASES, blood in same)



**KOLTAY, Miklos, dr.; SZORADY, Istvan, dr.**

Largactil therapy in intracranial hemorrhages in newborn and premature infants. Orv. hetil. 98 no.14:364-365 7 Apr 57.

1. A Szegedi Orvostudományi Egyetem Gyermekklinikájának (igazgató: Waltner, Karoly, dr. egyet. tanár) közleménye.  
(CEREBRAL HEMORRHAGE, in inf. & child  
ther., chlorpromazine, in newborn & premature (Hun))  
(INFANT, NEWBORN, dis.  
cerebral hemorrh., ther., chlorpromazine (Hun))  
(INFANT, PREMATURE, dis.  
same)  
(CHLORPROMAZINE, ther. use  
cerebral hemorrh. in newborn & premature inf. (Hun))

KOITAY, Miklos, Dr.

Clinical significance of gamma globulin-deficient conditions. Orv. hetil.  
869-874 29 June 58.

1. A Szegedi Orvostudományi Egyetem Gyermaklinikájának (igazgató:  
Waltner Károly dr. egyet. tanár) közleménye.  
(AGAMMAGLOBULINEMIA  
clin. aspects (Hun))

KOLTAY, M

SZORADY, Istvan, Dr.; KOLTAY, Miklos, Dr.

Clinical significance of ataraxics or tranquilizers. Orv. hetil. 99 no.15:  
489-493 13 Apr 58.

1. A Szegedi Orvostudományi Egyetem Gyermekklinika-jának (igazgató: Waltner  
Károly dr. egyet. tanár) közleménye.

(TRANQUILIZING AGENTS

classif., pharmacol. & clin. significance (Hun))

KOLTAY, Miklós, Dr.; SZORADY, Istvan

Experiences on the pediatric application of ataraxics (tranquilizers)  
Orv. hetil. 99 no.15:494-496 13 Apr 58.

I. A Szegedi Orvostudományi Egyetem Gyermekklinikájának (igazgató: Waltner  
Károly dr. egyet. tanár) közleménye.  
(TRANQUILIZING AGENTS, ther. use  
pediatric dis. (Hun))  
(PEDIATRIC DISEASES, ther.  
tranquilizing agents (Hun))

KOLTAY, Miklos, dr.; PIROSKA, Ebrej.B..

Significance of group "chronic phase reactions" in clinical aspects of rheumatic fever in children. Gyermekgyogyasat 11 no.1:1-12 Ja '60.

1. A Szegedi Orvostudományi Egyetem Gyermekklinikájának (Igazgató: Waltner Karoly dr. egyetemi tanár) közleménye.  
(RHEUMATIC FEVER diag)

KOLTAY, Miklos, dr.; SZABADOS, Terez, dr.

Immunelectrophoresis. Orv.hetil. 101 no. 37:1297-1303. 11 S '60.

1. Szegedi Orvostudományi Egyetem, Gyermekklinika.  
(ELECTROPHORESIS)

SZORADY, Istvan; KOLTAY, Miklos; DOMBRADI, Geza; TAKACS, Odon

Studies on electrolytes in artificial hibernation. Kiserletes  
orvostud. 13 no.4:337-344 Ag '61.

1. Szegedi Orvostudományi Egyetem Gyermekklinika és Élettani  
Intézete.

(HIBERNATION ARTIFICIAL metab) (ELECTROLYTES metab)

KOLTAY, Miklos, dr.; SZOLLOSY, Ervin, drl; MECS, Imre, dr.; ZENGEI, Klara, dr.

Etiological studies on intestinal diseases and acute respiratory diseases  
in infant homes. Gyermekgyógyászat 13 no.7:201-209 JI '62.

1. A Szegedi Orvostudományi Egyetem Mikrobiológiai Intézetének és  
Gyermekklinikájának közleménye.

(RESPIRATORY SYSTEM dis) (GASTROENTEROLOGY)

(INFANT NUTRITION DISORDERS in inf & child)



KOLTAY, Vince

The five hundredth bauxite train from Halimba. Magy vasut 7  
no.17:1 2 8 '63.

KOLTAYNE Gyarmati, Borbala

Possibilities for the experimental detection of the state of polarization of gamma rays and electrons. ATOMKI kozl l no. 1: 31-50 '59.

*Handwritten notes:*  
1. The value of  $\mu$  is 1.27  
2.  $\mu = 1.27$

*Handwritten:* B

✓ New investigation of the  $H_2^+$  molecule-ise. H. Gurnee  
and B. Kottay-Gyrm (Kosuth Lajos Univ. Debrecen)  
*Acta Phys. Acad. Sci. Hung. 7, 175-0(1967) in English*  
 $H_2^+$  is investigated by use of "shifted center" eigenfunctions  
(cf. Gurnee and Magee, C.A. 44, 6098e). Shifting of the  
functions of Finkelstein and Horowitz (C.A. 27, 314)

*Handwritten:* 1003d-1

Improves the binding energy from 2.25 to 2.56 e.v.

*Handwritten:* H. Gurnee

HUNGARY/Electricity - General Problems.

G

Abs Jour : Ref Zhur Fizika, No 4, 1960, 9021

Author : Gaspar, R., Koltay-Gyarmati, B., Tamassy-Lentie, I.

Inst : Institute of Theoretical Physics, Kassuth Lajos  
University, Debressen Hungary

Title : Determination of Electrostatic Potentials by Series

Orig Pub : Acta Phys. Acad. scient. hung., 1959, 9, No 4, 369-380

Abstract : A series method is developed for solving the Poisson equation as applied to electrostatic problems. The case is considered, when the distribution of the charge can be written with the aid of the Dirac  $\delta$ -function (i.e., point-like distribution, surface or linear distribution, if it has a suitable symmetry, etc.). The solution of the Poisson equation is sought in the form of a series in eigenfunctions of the corresponding boundary problem.

Card 1/2

KACZOR, Marian; KOLTEK, Antoni; MATUSZEWSKI, Jozef

Effect of bee milk on blood lipids in atherosclerosis. Pol. tyg.  
lek. 17 no.29:1140-1144 16 J1 '62.

1. Z Laboratorium Analityczno-Biochemicznego P.P. "Uzdrowisko Polanica",  
lekarz naczelny: dr Jozef Matuszewski.  
(BEES) (ARTERIOSCLEROSIS) (BLOOD LIPIDS)  
(BLOOD CHOLESTEROL)

KACZOR, Marian; KACZOR, Elzbieta; KOTLIK, Antoni, MATUSZEWSKI, Jozef.

Effect of spa therapy on blood glycoproteins in arteriosclerosis. Pol. arch. med. wewnet. 34 no.3:279-284 '64

1. Z Ośrodka Naukowo-Edukacyjnego II Kliniki Chorob Wewnętrznych Łódzkiej AM w Polanicy-Zdroju; kierownik: prof.dr. J. Jakubowski.

\*

GASTOL, B.; KOLTEK, K.

Level of hemoglobin, number of red cells, and protein in the blood serum as indicators of the state of nutrition of industrial workers, Roczn panstw zakl hig 14 no. 3:275-281 '63.

1. Institute of Hygiene, School of Medicine, Krakow, and City Dispensary of Industrial Hygiene, Krakow.

GASTOL, Blazej; HOLOWIECKA, Ewa; KOLTEK, Krystyna

Evaluation of the nutritional status of children and adolescents in children's homes in the Cracov region according to the thickness of the subcutaneous adipose tissue, hemoglobin level, erythrocyte count, blood protein level and vitamin C level. Folia med. Cracov. 6 no.3:343-353 '64.



GASTOL, Blazej; HOLOWIECKA, Ewa; KOLTEK, Krystyna

Studies on the physical development of children and adolescents  
in children's homes in the Cracov Region. Folia med. Cracov. 6  
no.1:57-81 '64

DIUZNIEWSKA, Krystyna; OBTULOWICZ, Anna; KOLTEK, Krystyna

Apropos of the relationship between nutrition, rate of growth  
and skeletal deformities in school children. Folia med. Cracov.  
7 no.1:115-126 '65.

KOLTHOFF, I. M. B

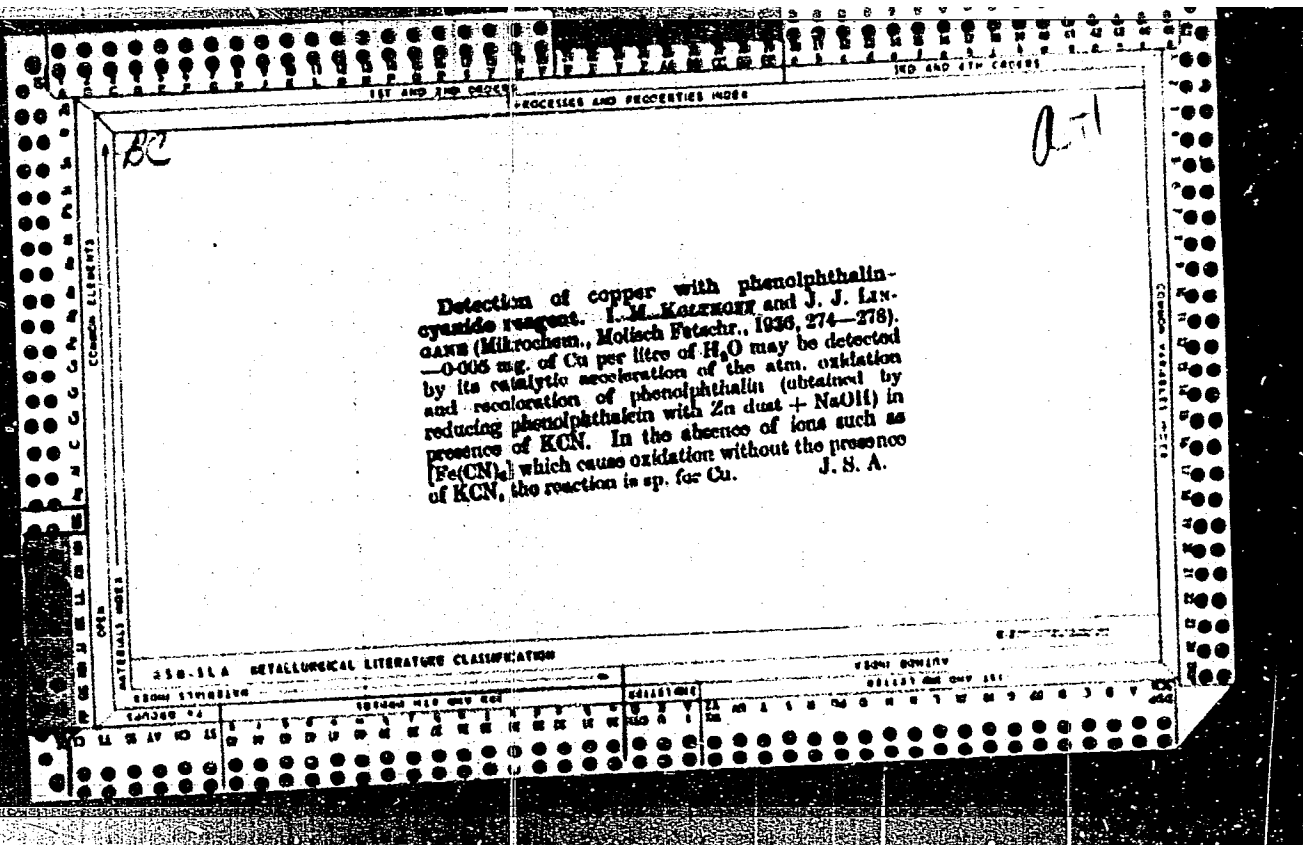
Kolthoff, I. M.

Oxidation of Nitrous Acid, Hydrazine, Ammonia, and Hypophosphite by means of Potassium Permanganate.

Pharm. weekblad, Vol. 61, 1924, pp. 954-960

J. Chem. Soc. V. 126, p. 673.

Oxidation of nitrite to nitrate by permanganate does not occur in alkaline solution. Good results are obtained by adding the nitrite solution to a considerable excess of permanganate in presence of 4N-sulphuric acid and after 15 minutes titration with excess with iodide and thio sulphate. Hydrazine is completely oxidized to nitrogen and water by excess of permanganate in alkaline solution, or by addition of permanganate to a boiling solution containing hydrochloric acid. Ammonia is oxidized to some extent by permanganate, the oxidation being more dependent on concentration in acid than in alkaline solution. Hypophosphite is oxidized quantitatively to phosphate by excess of permanganate in presence of sulphuric acid in 24 hours.



PROCESSES AND PROPERTIES INDEX

117 AND 120 000011

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**Micro-determination of iodine by catalytic method.** E. B. SANDRELL and I. M. KOLTSOFF (Mikrochim. Acta, 1937, 2, 9-25).—The very slow oxidation of  $\text{AsO}_3^{3-}$  by  $\text{Ce}(\text{SO}_4)_2$  is catalyzed by traces of  $\text{I}^-$ ; the catalytic effects of  $\text{Cl}^-$  and  $\text{Br}^-$  on the reaction are  $10^{-2}$  to  $10^{-4}$  as great as that of  $\text{I}^-$ .  $\text{CN}^-$  inhibits the catalysis, as do  $\text{Ag}$  and  $\text{Hg}$ , which do not affect the catalytic action of  $\text{Os}$  on the same reaction.  $\text{F}^-$  also interferes, but interference may be suppressed by adding  $\text{AlCl}_3$ . The catalytic action of  $\text{I}^-$  down to  $[\text{I}^-] = 10^{-6}$  in the presence of small amounts of  $\text{Cl}^-$ . 0.00005–0.001 mg. of  $\text{I}^-$  may be

determined by measuring the time required for the reduction of a measured vol. of 0.1N- $\text{Ce}(\text{SO}_4)_2$  by an excess of 0.1N- $\text{Na}_2\text{AsO}_3$  containing the sample for analysis, using [Fe o-phenanthroline] as indicator. The catalytic effect of other materials is eliminated by measurement of the rate of reaction after the addition of a measured amount of  $\text{I}^-$ . 1 part of  $\text{I}^-$  may be so determined in the presence of  $10^4$  parts of  $\text{Cl}^-$  or  $\text{Br}^-$ .

J. N. A.

A 58-31 A METALLURGICAL LITERATURE CLASSIFICATION

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Processes and Properties Index

Volumetric determination of bismuth as bismuth hydrogen iodide oxime. I. M. KOLTYKOV and F. S. GAVRILIN (Mikrochim. Acta, 1958, 3, 45-47).—A crit. investigation of the determination of Bi as  $C_2H_5ON \cdot BIH_2$  by Berg and Wurm's method (A., 1927, 847), which is found to give low (1%) results. In the modified method recommended the excess of I<sup>-</sup> is determined by Andrews' ICl method after pptn. and removal of the Bi compound. The final concn. of  $H_2SO_4$  or  $HNO_3$  after pptn. can be 1N without affecting the results, but with a chloride concn. >0.08N low results are obtained. For macro-amounts of Bi the accuracy of the method described is  $\pm 0.3\%$ , and for amounts of  $\sim 0.25$  mg. the indirect method given is accurate to approx.  $\pm 5\%$  (cf. A., 1936, 180).

L. S. T.

Metallurgical Literature Classification

Common Elements: A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, AB, AC, AD, AE, AF, AG, AH, AI, AJ, AK, AL, AM, AN, AO, AP, AQ, AR, AS, AT, AU, AV, AW, AX, AY, AZ, BA, BB, BC, BD, BE, BF, BG, BH, BI, BJ, BK, BL, BM, BN, BO, BP, BQ, BR, BS, BT, BU, BV, BW, BX, BY, BZ, CA, CB, CC, CD, CE, CF, CG, CH, CI, CJ, CK, CL, CM, CN, CO, CP, CQ, CR, CS, CT, CU, CV, CW, CX, CY, CZ, DA, DB, DC, DD, DE, DF, DG, DH, DI, DJ, DK, DL, DM, DN, DO, DP, DQ, DR, DS, DT, DU, DV, DW, DX, DY, DZ, EA, EB, EC, ED, EE, EF, EG, EH, EI, EJ, EK, EL, EM, EN, EO, EP, EQ, ER, ES, ET, EU, EV, EW, EX, EY, EZ, FA, FB, FC, FD, FE, FF, FG, FH, FI, FJ, FK, FL, FM, FN, FO, FP, FQ, FR, FS, FT, FU, FV, FW, FX, FY, FZ, GA, GB, GC, GD, GE, GF, GG, GH, GI, GJ, GK, GL, GM, GN, GO, GP, GQ, GR, GS, GT, GU, GV, GW, GX, GY, GZ, HA, HB, HC, HD, HE, HF, HG, HH, HI, HJ, HK, HL, HM, HN, HO, HP, HQ, HR, HS, HT, HU, HV, HW, HX, HY, HZ, IA, IB, IC, ID, IE, IF, IG, IH, II, IJ, IK, IL, IM, IN, IO, IP, IQ, IR, IS, IT, IU, IV, IW, IX, IY, IZ, JA, JB, JC, JD, JE, JF, JG, JH, JI, JJ, JK, JL, JM, JN, JO, JP, JQ, JR, JS, JT, JU, JV, JW, JX, JY, JZ, KA, KB, KC, KD, KE, KF, KG, KH, KI, KJ, KK, KL, KM, KN, KO, KP, KQ, KR, KS, KT, KU, KV, KW, KX, KY, KZ, LA, LB, LC, LD, LE, LF, LG, LH, LI, LJ, LK, LL, LM, LN, LO, LP, LQ, LR, LS, LT, LU, LV, LW, LX, LY, LZ, MA, MB, MC, MD, ME, MF, MG, MH, MI, MJ, MK, ML, MM, MN, MO, MP, MQ, MR, MS, MT, MU, MV, MW, MX, MY, MZ, NA, NB, NC, ND, NE, NF, NG, NH, NI, NJ, NK, NL, NM, NN, NO, NP, NQ, NR, NS, NT, NU, NV, NW, NX, NY, NZ, OA, OB, OC, OD, OE, OF, OG, OH, OI, OJ, OK, OL, OM, ON, OO, OP, OQ, OR, OS, OT, OU, OV, OW, OX, OY, OZ, PA, PB, PC, PD, PE, PF, PG, PH, PI, PJ, PK, PL, PM, PN, PO, PP, PQ, PR, PS, PT, PU, PV, PW, PX, PY, PZ, QA, QB, QC, QD, QE, QF, QG, QH, QI, QJ, QK, QL, QM, QN, QO, QP, QQ, QR, QS, QT, QU, QV, QW, QX, QY, QZ, RA, RB, RC, RD, RE, RF, RG, RH, RI, RJ, RK, RL, RM, RN, RO, RP, RQ, RR, RS, RT, RU, RV, RW, RX, RY, RZ, SA, SB, SC, SD, SE, SF, SG, SH, SI, SJ, SK, SL, SM, SN, SO, SP, SQ, SR, SS, ST, SU, SV, SW, SX, SY, SZ, TA, TB, TC, TD, TE, TF, TG, TH, TI, TJ, TK, TL, TM, TN, TO, TP, TQ, TR, TS, TT, TU, TV, TW, TX, TY, TZ, UA, UB, UC, UD, UE, UF, UG, UH, UI, UJ, UK, UL, UM, UN, UO, UP, UQ, UR, US, UT, UY, UZ, VA, VB, VC, VD, VE, VF, VG, VH, VI, VJ, VK, VL, VM, VN, VO, VP, VQ, VR, VS, VT, VU, VV, VW, VX, VY, VZ, WA, WB, WC, WD, WE, WF, WG, WH, WI, WJ, WK, WL, WM, WN, WO, WP, WQ, WR, WS, WT, WU, WV, WW, WX, WY, WZ, XA, XB, XC, XD, XE, XF, XG, XH, XI, XJ, XK, XL, XM, XN, XO, XP, XQ, XR, XS, XT, XU, XV, XW, XX, XY, XZ, YA, YB, YC, YD, YE, YF, YG, YH, YI, YJ, YK, YL, YM, YN, YO, YP, YQ, YR, YS, YT, YU, YV, YW, YX, YY, YZ, ZA, ZB, ZC, ZD, ZE, ZF, ZG, ZH, ZI, ZJ, ZK, ZL, ZM, ZN, ZO, ZP, ZQ, ZR, ZS, ZT, ZU, ZV, ZW, ZX, ZY, ZZ.

PROCESSES AND PROPERTIES INDEX

1ST AND 2ND ORDERS      3RD AND 4TH ORDERS

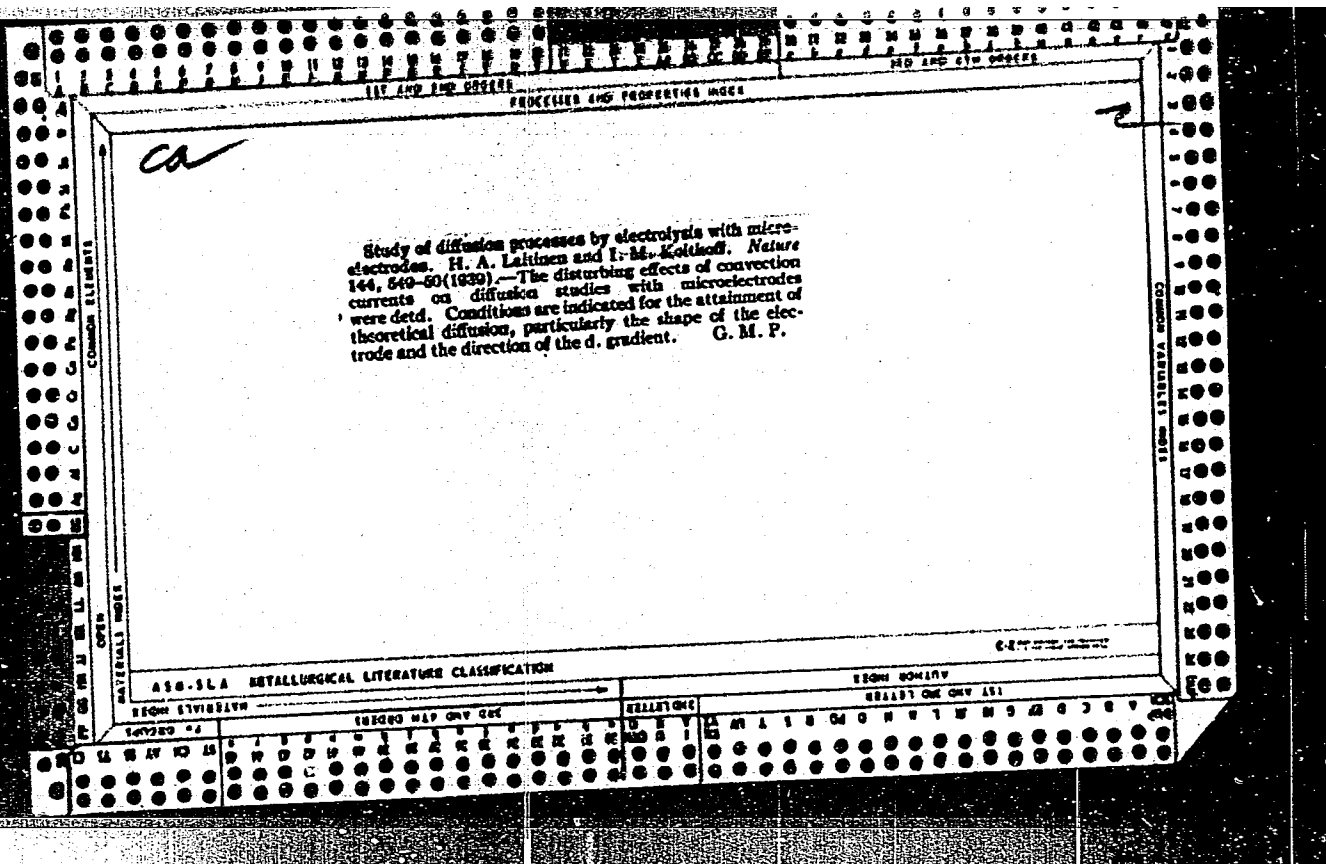
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A-1

Amperometric (polarographic) titrations. I. Amperometric titration of lead with dichromate or chromate. I. M. KOTRGOV and Y. D. PAN (J. Amer. Chem. Soc., 1939, 61, 3402-3409).—In "amperometric" titrations the current which passes between two suitable electrodes at a const. applied e.m.f. is measured. Depending on the conditions, one or both electrodes are placed in the titration medium, and the end-point in general is the point of intersection of two lines giving the change in current before and after the equivalence point. The amperometric titration method has been applied to the accurate determination of Pb<sup>2+</sup> (in aq. Pb(NO<sub>3</sub>)<sub>2</sub> with K<sub>2</sub>Cr<sub>2</sub>O<sub>7</sub> or K<sub>2</sub>CrO<sub>4</sub> using the dropping, Hg electrode as an indicator electrode. The method is sensitive to 0.001% Pb<sup>2+</sup>. Pb<sup>2+</sup> can also be titrated amperometrically in presence of large amounts of Ba<sup>2+</sup> when the solution is slightly acid with HClO<sub>4</sub>. The fractional pptn. of Pb<sup>2+</sup> and Ba<sup>2+</sup> with K<sub>2</sub>CrO<sub>4</sub> in a neutral medium is not accurate, owing to co-pptn. of BaCrO<sub>4</sub> and PbCrO<sub>4</sub>. W. R. A.

6-77 (REV.) JAN 65

639.514 METALLURGICAL LITERATURE CLASSIFICATION

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

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IU.IU.Lur'e. Moskva, Gos. nauchno-tekhn. izd-vo khim. lit-ry.  
Vol.3.[Practical part; oxidation-reduction methods] Prakticheskaja  
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