MANIN, V.A.

Utilization of natural spindle tree thickets. Trudy Inst. lesa 46:
40-43 '58.   (MIRA 11:6)

1. Ukrainskiy nauchno-issledovatel'skiy institut lesnogo khozyaystva.
                                (Spindle tree)

57-2-16/32

AUTHORS: Vinogradov, G. V. , Manin, V. N.

TITLE: An Investigation by Optical Polarization of the Flow Processes
              in Concentrated Solutions of High Polymers (Polyarizatsionno -
              -opticheskoye issledovaniye protsessov techeniya kontsentriro-
              vannykh rastvorov vysokopolimerov)

PERIODICAL: Zhurnal Tekhnicheskoy Fiziki, 1958, Vol.28, Nr 2, pp.279-286
              (USSR)

ABSTRACT: The peculiarities of the viscosity-, thixotropic- and dynamo-
              optical properties of a concentrated solution of ethylcellulose
              were compared here. The results in the determination of the ex-
              tinction angle and the angles at double refraction well explain
              the nature of the thixotropic transformations in solutions of
              ethylcellulose. The quantitative dependence of the quantities
              of the double refraction and the extinction angles on the shear-
              ing strain and the velocity gradients is determined here. On
              the basis of a comparison of the rheological and the dynamoop-
              tical characteristics of systems which were investigated in a
Card 1/2   rotation-device with coaxial cylinders and a homogeneous poten-

57-2-16/32

An Investigation by Optical Polarization of the Flow Processes in Concentrated Solutions of High Polymers

tial field, a method for the determination of the kinematics and the dynamics of the flows of anomalous viscous systems with a heterogeneous potential field is suggested here. For the case of a plane flow with a heterogeneous potential field the authors show a good convergence in the calculation of the kinematic and dynamic flow cross sections which were performed on the basis of the rheological and polarization-optical measurements. There are 6 figures, and 7 references, 6 of which are Slavic.

SUBMITTED: March 6, 1957

AVAILABLE: Library of Congress

1. Ethel cellulose-Viscosity

Card 2/2

VINOGRADOV, G.V.; MANIN, V.N.

Rheological properites of concentrated polymer solutions.
Vysokom. soed. 2 no. 3:329-336 Mr '60.   (MIRA 13:11)

1. Institut neftekhimicheskogo sinteza AN SSSR.
            (Polymers)   (Cellulose)

MANIN, V.N. (Moskva); VINOGRADOV, G.V. (Moskva)

Different types of turbulence in highly elastic liquids.
Koll. zhur. 27 no.5:784-785 S-O '65.   (MIRA 18:10)

ACC NR: AP6011256   (N)   SOURCE CODE: UR/0413/66/000/006/0096/0096

AUTHORS: Korobkov, M. A.; Manin, V. N.; Rukin, V. I.; Andronov, V. M.

ORG: none   1

TITLE: Assembly for complex estimating the strength of flanged couplings. Class 42, No. 179984 /announced by Military Academy of Chemical Defense (Voyennaya akademiya khimicheskoy zashchity)/

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 6, 1966, 96

TOPIC TAGS: metal joining, mechanical power transmission device, pressure gage, visual signal, signal element

ABSTRACT: This Author Certificate presents an assembly for complex estimating of the strength of flanged couplings. The assembly contains a hydraulic press for loading the flanged coupling and instruments for determining the compression stress in the flanged joint (see Fig. 1). To determine more exactly the penetration of the working liquid between the contact surfaces of the flanged coupling, one half of the contact surface of the flanged coupling carries uniformly distributed electrical gauges. Each of these gauges is connected to a signaling device such as

Card 1/2   UDC: 620.165.29.06:621-762.4

ACC NR: AP6011256

Electric contact
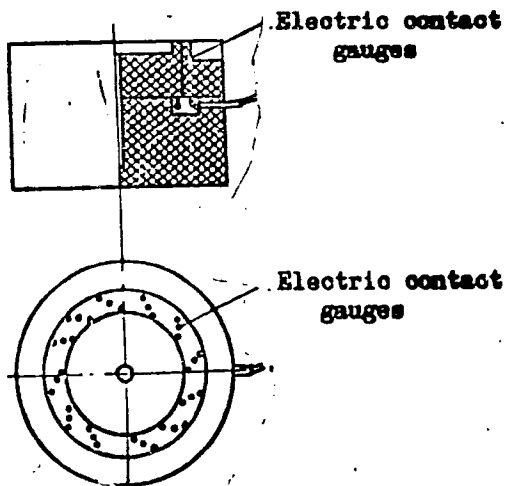gauges

Electric contact
gauges

Fig. 1.

a neon lamp, the lighting of which shows that the penetration has taken place.
Orig. art. has: 1 figure.

SUB CODE: 13/ SUBM DATE: 02Feb65

Card 2/2

MANIN, V.Ye.

Use of "P min'," a small electronic computer, for the mechanization
of engineering calculations. Vych. i org.tekh. v stroi. i proekt.
no.3:49-50 '64.   (MIRA 18:10)

1. Pridneprovskiy Promstroyproyekt.

Manin, Yu. I.

44-1-75

TRANSLATION FROM: Referativnyy zhurnal, Matematika, 1957, Nr 1, p 10 (USSR)

AUTHOR: Manin, Yu. I.

TITLE: On Cubic Congruences with Two Unknowns with Prime Modulus
              (O sravneniyakh tret'yey stepeni s dvumya neizvestnymi po
              prostomu modulyu)

PERIODICAL: Tr. 3-go Vses. Matem. S"yezda. 2, Moscow, AN SSSR, 1956, p 110

ABSTRACT: Bibliographic entry

Card 1/1

MANIN, Yu I.

SUBJECT   USSR/MATHEMATICS/Number theory   CARD 1/2   PG - 552
AUTHOR   MANIN Ju.I.
TITLE   On congruences of third degree with respect to a prime modulus.
PERIODICAL   Izvestija Akad.Nauk $\underline{20}$, 673-678 (1956)
             reviewed 1/1957

The author gives an elementary proof for the estimation (Hasse)

$$\left| N_p - p \right| < 2 \sqrt{p}$$

of the number N_p of solutions of the congruence $y^2 \equiv x^3 + ax + b \pmod{p}$,

p - prime number > 3, $4a^3 - 27 b^2 \neq 0$. The author states that to every two
solutions $(x_1 y_1)$ and $(x_2 y_2)$ there corresponds a further solution $(x_3 y_3)$
(third intersection point of the secant through $(x_1 y_1)$ and $(x_2 y_2)$ with the
curve $y^2 = x^3 + ax + b$). Then a twosided infinite sequence is defined:

$$X_o = x^p, \qquad Y_o = (x^3 + ax + b)^{\frac{p-1}{2}}$$

$$X_{n+1} = - x - X_n + \frac{(1-Y_n)^2}{(x-X_n)^2} (x^3 + ax + b)$$

$$Y_{n+1} = \frac{1-Y_n}{x-X_n} (x - X_{n+1}) - 1$$

for $n > 0$ and $(X_n, Y_n) \neq (x, \pm 1)$. Similar definition formulas are given for $n > 0$ and $(X_n, Y_n) = (x, 1)$ and for $n < 0$. It is asserted that for all n for which X_n is defined, the degree of the numerator of X_n in x is greater than the degree of the denominator. Now let

$$d_n = \begin{cases} 0 \text{ if } X_n \text{ is not defined} \\ \text{degree of the nominator of } X_n \text{ in all other cases.} \end{cases}$$

For d_n the following lemmas are proved wherefrom the estimation follows immediately:

1. $d_{n-1} + d_{n+1} = 2d_n + 2$

2. $d_n = n^2 - (d_{-1} - d_0 - 1)n + d_0$

3. $d_{-1} - d_0 - 1 = N_p - p$.

16(1)

AUTHOR: Manin, Yu.I.   SOV/38-22-6-1/6

TITLE: Algebraic Curves Over Fields With Differentiation (Alge-
               braicheskiye krivyye nad polyami s differentsirovaniyem)

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya matematicheskaya, 1958,
                                   Vol 22, Nr 6, pp 737 - 756 (USSR)

ABSTRACT: The author considers the group of the divisor classes of the
               degree zero of a curve which is defined over a field of
               constants with differentiation and the additive group of a
               vector space of finite dimension over the field of constants.
               A differential-algebraic homomorphism of the group of the
               divisor classes into the additive group of the vector space
               is constructed. The investigation of the homomorphy kernel
               proves to be very difficult already in simplest cases. As
               an application of the general theory the author gives a cri-
               terion for the linear dependence of the points of an elliptic
               curve over the field of the rational functions. He essential-
               ly uses a lemma of Chevalley [Ref 2]. The author thanks
               I.R. Shafarevich for his interest in the present paper.
               There are 5 non-Soviet references, 3 of which are American,

Card 1/2

Algebraic Curves Over Fields With Differentiation   SOV/38-22-6-1/6

              and 2 German.

PRESENTED: by I.M. Vinogradov, Academician
SUBMITTED: March 20, 1958

Card 2/2

16(1)

AUTHOR: Manin, Yu.I.   SO7/20-125-3-6/63

TITLE: On the Moduli of a Field of Algebraic Functions (O modulyakh polya algebraicheskikh funktsiy)

PERIODICAL: Doklady Akademii nauk SSSR,1959,Vol 125,Nr 3,pp 488-491 (USSR)

ABSTRACT: The author proves the conjecture of Teichmüller $\left[\text{Ref } 2,4\right]$. Here the hyperelliptic case already investigated by Eichler $\left[\text{Ref } 3\right]$ is excluded. The proof of the author is based on rather general considerations of the independent parameters (moduli) of a field of algebraic functions with the characteristic zero. The consideration starts from the investigation of the author $\left[\text{Ref } 1\right]$ concerning the differentiation in the constant field. The author thanks I.R. Shafarevich who directed him to the possibility of proving the conjecture of Teichmüller in the mentioned way.
There are 4 references, 1 of which is Soviet, and 3 German.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova (Moscow State University imeni M.V. Lomonosov)

PRESENTED: December 27,1958, by I.M. Vinogradov, Academician

SUBMITTED: December 24,1958

Card 1/1

MANIN, Yu. I.

Cand Phys-Math Sci - (diss) "Theory of Abelian polyforms /mnogo-
obraziy/." Moscow, 1961. 6 pp; (Academy of Sciences USSR,
Mathematics Inst imeni V. A. Steklov); 200 copies; price not
given; (KL, 6-61 sup, 194)

16.1500

AUTHOR: Manin, Yu.I.

TITLE: On the matrix of Hasse-Witt of an algebraic curve

PERIODICAL: Akademii nauk SSSR. Izvestiya. Seriya matematicheskaya,
v.25, no.1, 1961, 153-172

TEXT: The author calculates the characteristic polynomial of the matrix
of Hasse-Witt and some other matrices connected with it. It is shown that
the rows of the matrix of Hasse-Witt are solutions of the classical
system of equations of periods.

Let K be a field of the finite characteristic p; let Γ be a curve of the
genus $g > 0$ defined over k; let Γ be not singular and complete; let $R_k(\Gamma)$
be the field of rational functions on Γ defined over k. Let $P_1,\ldots,P_g$ be
k-rational points on Γ; let the divisor $\sum_{i=1}^{g} P_i$ be non special. Let

$t_i \in R_k(\Gamma)$ be a local uniformizing variable at P_i. The repartition r_i
of $R_k(\Gamma)$ be defined in the sense of Chevalley by putting $(r_i)_P = \dfrac{1}{t_i}$

for $P = P_i$ and $(r_i)_P = 0$ in the other cases. Let $\mathcal{A}(D)$ be the space of the

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S/038/61/025/001/003/003
On the matrix of Hasse-Witt....   C111/C222

repartitions which are multiples of the divisor D. Then $r_1, \ldots, r_g$ form a base of the k-vector space $\mathcal{A}/(\mathcal{A}(0)+R_k(\Gamma))$ since $\sum_{i=1}^{g}$ is not special.
Especially it holds

$$r_i^p \equiv \sum_{j=1}^{g} a_{ij} r_j \bmod (\mathcal{A}(0)+R_k(\Gamma)),$$

where $A = (a_{ij})$ is the so-called matrix of Hasse-Witt with elements of k. The following properties of A are found:

1°. If the non-special system of points (P_i) is replaced by another such system and the local uniformizing variables (t_i) are also replaced by another system then A is transformed according to the law

$$A \rightarrow S^{-1} A S^{(p)},$$

where S is a non-degenerated (g,g)-matrix with elements of k, and the elements of $S^{(p)}$ are the p-th powers of the corresponding elements of S. Card 2/4

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S/038/61/025/001/003/003
C111/C222

On the matrix of Hasse-Witt...

2^0. If the k is algebraically closed then the cyclic unramified extensions of p-th degree of $R_k(\Gamma)$ are in a one-to-one correspondence with the base elements of a linear space consisting of vectors $\bar{c}$ for which $\bar{c}^{(p)}A = \bar{c}$.

The dimension of this linear space equals the rank of the matrix $AA^{(p)}...A^{(p^{g-1})}$.

Theorem 1: Let the curve Γ with the genus $g > 0$ be defined over the field k_0 of the characteristic $p \neq 0$ consisting of $q = p^a$ elements. On Γ let exist a non-special system of g k-rational points. Because of the property 1^0 the matrix A of Hasse-Witt of the curve Γ is defined uniquely up to transformation $A \rightarrow S^{-1}AS^{(p)}$, where S is a non-degenerated matrix with elements of k so that the characteristic polynomial $|A_\pi - \lambda E|$ of the matrix $A_\pi = AA^{(p)}...A^{(p^a-1)}$ is an absolute invariant of Γ. It holds

$\bar{\pi}(\lambda) = (-1)^g \lambda^g |A_\pi - \lambda E|$, where $\bar{\pi}(\lambda)$ is the characteristic polynomial reduced mod p of the endomorphism π: $(x) \rightarrow (x^q)$ of the Jacobian J of the curve Γ.

Theorem 2 asserts that the rows of the matrix of Hasse-Witt satisfy

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On the matrix of Hasse-Witt...

S/038/61/025/001/003/003
C111/C222

every differential relation which is satisfied by the base elements of
the space of differentials of first kind mod the space of complete
differentials.
Results by Serre and Cartier are used essentially for the proof of the
theorems.
The author thanks I.R.Shafarevich for the leading of the work. There are
1 Soviet-bloc and 16 non-Soviet-bloc references. The four most recent
references to English-language publications read as follows: W.L.Chow,
The Jacobian variety of an algebraic curve, Amer.J.of Math., 76 (1954),
453-476; J.Igusa, Class number of a definite quaternion with prime dis-
criminant, Proc.Nat.Ac.Sci.USA, 44 (1958),312-314; S.Lang, Abelian
Varieties, Interscience Tracts, New York, 1959; M.Rosenlicht, Extensions
of vector groups by abelian varieties, Amer.J.of Math., 80 (1958),685-714.

SUBMITTED: April 16, 1960

Card 4/4

MANIN, Yu.I.

Ramified coverings of algebraic curves. Izv. AN SSSR. Ser. mat.
25 no.6:789-796 N-D '61.   (MIRA 14:11)
(Curves)
(Functions, Algebraic)

MANIN, Yu.I.

Diophantine equations over functional fields. Dokl. AN SSSR
139 no.4:806-809 Ag '61.   (MIRA 14:7)

1. Matematicheskiy institut im. V.A. Steklova Akademii nauk
SSSR. Predstavleno akademikom I.M. Vinogradovym.
            (Diophantine analysis) (Fields, Algebraic)

MANIN, YU. I.

"On the classification of formal abelian groups"

report submitted at the Intl Conf of Mathematics, Stockholm. Sweden,
15-22 Aug 62

GEL'FOND, Aleksandr Osipovich;LINNIK, Yuriy Vladimirovich. Prinimali
    uchastiye:VINOGRADOV, A.I.; MANIN, Yu.I.; KARATSUBA, A.A.,
    red.; AKSEL'ROD, I.Sh., tekhn. red.   ----·

[Elementary methods in the analytical theory of numbers]Ele-
mentarnye metody v analiticheskoi teorii chisel. Moskva,
Fizmatgiz, 1962. 269 p.   (MIRA 16:3)
                (Numbers, Theory of)

MANIN, Yu.I.

Remark on Lie p-algebras. Sib.mat.zhur. 3 no.3:479-480 My-Je
'62.   (MIRA 15:9)
                    (Lie algebras)

MANIN, Yu.I.

Theory of Abelian manifolds over a field of finite characteristic.
Izv.AN SSSR.Ser.mat. 26 no.2:281-292 Mr-Ap '62.   (MIRA 15:7)
(Aggregates)

MANIN, Yu.I.

Two-dimensional formal Abelian groups. Dokl. AN SSSR 143
no.1:35-37 Mr '62.
(MIRA 15:2)

1. Matematicheskiy institut im. V.A.Steklova AN SSSR. Predstavleno
akademikom I.M.Vinogradovym.
(Abelian groups)

MANIN, Yu.I.

Classification for formal Abelian groups. Dokl.AN SSSR 144
no.3:490-492 My '62.   (MIRA 15:5)

1. Matematicheskiy institut im. V.A.Steklova AN SSSR. Predstavleno
akademikom I.M.Vinogradovym.
                        (Abelian groups)

MANIN, Yu.I.

Commutative formal groups and Abelian manifolds. Dokl.AN SSSR 145
no.2:280-283 Jl '62.   (MIRA 15:7)

1. Matematicheskiy institut imeni V.A.Steklova AN SSSR.   Predstavleno
akademikom I.M.Vinogradovym.
                     (Abelian groups)

MANIN, Yu.I.

"Complex multiplication of Abelian varieties and its applications to number theory" [in English] by G.Shimura, Y.Taniyama. Reviewed by IU. I. Manin. Zhur. vych. mat. i mat. fiz. 3 no.3:606-607
My-Je '63.
(MIRA 16:5)
(Rings (Algebra)) (Numbers, Theory of) (Shimura, G.) (Taniyama, Y.)

MANIN, Yu.I.

Theory of commutative formal groups over fields of a finite
characteristic. Usp. mat. nauk 18 no.6:3-90 '63.   (MIRA 17:3)

MANIN, Yu.I.

Rational points of algebraic curves over function fields. Izv. AN
SSSR. Ser. mat. 27 no.6:1395-1440 N-D '63.   (MIRA 17:1)

MANIN, Yu.I.

Rational points on algebraic curves. Usp. mat. nauk 19 no.6:
83-87 N-D '64   (MIRA 18:2)

MANIN, Yu.I.

Tate height of points on an Abelian manifold, its variants and
applications. Izv. AN SSSR. Ser. mat. 28 no.6:1363-1390 N-D '64.
(MIRA 18:2)

MANIN, Yu.I.

Algebraic topology of algebraic varieties. Usp. mat. nauk 20
no.6:3-12 N-D '65.
(MIRA 18:12)

1. Submitted March 30, 1965.

SHAFAREVICH, I.R.; AVERBUKH, B.G.; VAYNBERG, Yu.R.; ZHIZHCHENKO, A.B.;
MANIN, Yu.I.; MOYSHEZON, B.G.; TYURINA, G.N.; TYURIN, A.N.;
PETROVSKIY, I.G., akademik, otv. red.; NIKOL'SKIY, S.M., prof.,
zamestitel' otv. red.

[Algebraic surfaces.] Algebraicheskie poverkhnosti. Moskva.
Nauka, 1965. 214 p. (Akademiia nauk SSSR. Matematicheskii   (MIRA 18:5)
institut. Trudy, vol. 75)

MANINA, A. A.

Changes in the dental pulp in damages of the superior certical sympathetic ganglion. Doklady Akad. nauk SSSR 84 no. 6:1247-1249 21 June 1952.   (CLML 22:8)

1. Presented by Academician N. H. Anichkov 22 April 1952. 2. Institute of Experimental Medicine, Academy of Medical Sciences USSR, Leningrad.

Showed in expts on cats that removal of the upper cervical sympathetic ganglion or damage to it results in changes in the pulp which above all affect the layer of odontoblasts. These changes later lead to caries and complete destruction of the dental crown. The nerve fibers, just as in the expts of I. M. Oksman and K. Christensen, retained their normal structure for 60 days after the operation.
223T32

MANINA, A.A.

Modification of the dental pulp in man; growth factor. Doklady Akad.
nauk SSSR 87 no. 3:485-488 21 Nov 1952.   (CLML 23:5)

1. Presented by Academician N. N. Anichkov 6 September 1952. 2. In-
stitute of Experimental Medicine of the Academy of Medical Sciences
USSR.

ANICHKOV, N.N., akademik; MANINA, A.A.

Problems of dental innervation in man.   Dokl.AN SSSR 91 no.3:655-658 Jl '53.
(MLRA 6:7)

1. Institut eksperimental'noy meditsiny Akademii meditsinskikh nauk SSSR
(for Manina).   2. Akademiya nauk SSSR (for Anichkov).
(Nerves, Dental)

MANINA, A.A., kandidat meditsinskikh nauk.

On the history of the problem of development and histological structure of teeth. Stomatologiia no.2:7-15 Mr-Ap '54. (MLRA 7:4)

1. Iz otdela gistologii (zaveduyushchiy - deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR professor N.G.Khlopin) Instituta eksperimental'noy meditsiny Akademii meditsinskikh nauk SSSR (direktor - chlen-korrespondent Akademii meditsinskikh nauk SSSR professor D.A. Biryukov).   (Teeth)

USSR / Human and Animal Morphology, Normal and Pathological.   S-2
       Nervous System. Central Nervous System.

Abs Jour   : Ref Zhur - Biol., No 18, 1958, No 83643

Author   : Zhemkova, Z. P.; Manina, A. A.; Orlova, O. A.
Inst   : Institute of Experimental Medicine, Academy of Medical
              Sciences, USSR.
Title   : Histochemical Changes in Cerebral Cells in Various Functio-
              nal and Organic Lesions in Rats.

Orig Pub   : Ezhegodnik. In-t eksperim. med. akad. med. nauk SSSR, 1955,
              L., 1956, 380-385

Abstract   : By means of histochemical and radiographic techniques (uti-
              lization of methionine, under designation of S 35), a study
              was made of the pyramidal cells of the cortex and Ammon's
              horn, Purkin cells, cells of the motor nuclei X and XII of
              the nerves of the medulla oblongata of 85 white rats with
              functional and traumatic lesions of CNS. Variations were

Card 1/2

MANINA, A.A.

USSR/ Medicine - Cytology

Card 1/1   Pub. 22 - 41/49

Authors   :   Manina, A. A.

Title   :   Degeneration of muscular cells in tissue cultures

Periodical :   Dok. AN SSSR 100/5, 997-999, Feb 11, 1955

Abstract   :   The development and growth of femoral muscylature of 9-12 day
               old chicken embryos were investigated by the tissue culture
               method. Results obtained are described. Six references (1940-
               1954). Illustrations.

Institution : Academy of Medical Sciences USSR, Institute of Experimental Medicine

Presented by : Academician N. N. Anichkov, October 12, 1954

HANINA A.A.; BYSTROV,V.D.

Growth and differentiation of skeletal muscles in tissue cultures.
Dokl. AN SSSR 103 no.3:499-502 Jl'55.   (MLRA 8:11)

1. Institut eksperimental'noy meditsiny. Predstavleno akademikom
N.A.Anichkovym.
        (MUSCLE
            tissue culture, growth & differentiation in)
        (TISSUE CULTURE,
            of musc., growth & differentiation)

AUTHOR: Manina, A. A.   SOV/20-122-3-50/57

TITLE: Inclusion and Distribution of Methionine S^{35} in the Brain of
                 White Rats (Vklyucheniye i raspredeleniye metionina S^{35} v
                 golovnom mozge belykh krys)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol 122, Nr 3, pp 504-507
                 (USSR)

ABSTRACT: According to present concepts the inclusion activity of the
                 marked amino acids in the tissue and the organs reflects the
                 autoradiography of the tissue proteins (Refs 1,3). Autoradio-
                 graphy makes it possible to establish a relation between the
                 inclusion activity of an isotope and certain morphological
                 structures, and it gives an accurate characteristic of the
                 transformation process not only in the organs and the tissues
                 but also in the cells. In the present paper the author aims
                 at investigating the dynamics of the protein metabolism in the
                 individual sections and nerve cells given in the title. This
                 investigation was carried out in newly born 5, 10, 30 days old,
                 and in fully grown rats. Nine test series with 90 animals were
Card 1/3   made. They were injected methionine S^{35} in indicator doses of

Inclusion and Distribution of Methionine S^{35} in the Brain of White Rats

$0,5\mu$ Cu per 1 g of weight each. The animals were killed by decapitation at different moments after the injection (1 hour to 30 days). The radio-autograms were taken on a liquid emulsion of the type P. The unequal inclusion of S^{35} in the different brain sections found is maintained also within the range of the nerve cells in one single layer. The curves given (Fig 2) characterize the differences of the inclusion and the separation of S^{35} in the cerebral cortex, in the cerebellum and in the white matter. A comparison of the inclusion intensity during the accumulation period, during the maximum, and towards the end of the experiment (30th day) is shown in table 1. From the analysis of the numerical data of the isotopic distribution in individual brain sections at later moments may be seen that the dynamics of separation is slow. This points to an unequal character of metabolism as found in the early stages. The unequal character of the methionine distribution in the brain of fully grown rats found is valid for all age groups. It reflects the intensity dynamics of the protein metabolism as well as the functional activity of different structures of the brain. There are 3 figures, 1 table, and 4 references, 3 of which are Soviet.

Card 2/3

Inclusion and Distribution of Methionine S^{35} in the Brain of White Rats   SOV/20-122-3-50/57

ASSOCIATION: Institut eksperimental'noy meditsiny Akademii meditsinskikh nauk
SSSR (Institute of Experimental Medicine, Academy of Medical
Sciences, USSR)

PRESENTED: May 4, 1958, by N. N. Anichkov, Member, Academy of Sciences,
USSR

SUBMITTED: April 28, 1958

Card 3/3

17 (,1)
· AUTHOR: Manina, A. A.   SOV/20-126-4-49/62

TITLE: On the Dynamics of Inclusion and Distribution of Radioactive
            Phosphorus P^{32} in the Tissue of the Nervous System of White
            Rats (Dinamika vklyucheniya i raspredeleniya radioaktivnogo
            fosfora P^{32} v tkani nervnoy sistemy belykh krys)

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 126, Nr 4, pp 867 - 869
            (USSR)

ABSTRACT: Phosphorylation processes play an important part in the devel-
            opment and the vital action of the organism. The assimilation
            of inorganic phosphorus which is accompanied by energy pro-
            ducing processes of respiration and glycolysis forms the basis
            of the processes of synthesis and formation of biological
            structures (Refs 1-3). The functional state of the nerve cells
            is in close relation with the phosphatide metabolism (Refs 4,
            5). The morphological analysis of these processes was not yet
            carried out. Only by the application of P^{32} the process of
            assimilation of phosphorus and its rate of reproduction could
            be determined (Refs 6,7). The author used embryos, 10 days old,
Card 1/4

On the Dynamics of Inclusion and Distribution of   SOV/20-126-4-49/62

Radioactive Phosphorus P^{32} in the Tissue of the
Nervous System of White Rats

and grown-up rats. Each series was hypodermically injected 7 μ C each, per 1 g weight. The animals were killed at different times between 24 and 240 hours after the injection with P^{32} by decollation. The inclusion of P^{32} in the brain of animals of different age is demonstrated by tables 1 and 2. Figure 1 shows the comparative intensity of inclusion in the case of 10 days old rats which were killed at different times. Figure 2 shows the intensity curve of the mentioned inclusion. It may be seen from the results of the autoradiographic investigation that the inclusion of P^{32} in the cells of the central nervous system is a gradual and slow process. The maximum intensity of inclusion is attained at about the 200th hour, the white substance exclusive. This substance absorbs P^{32} more slowly. In this case the intensity of inclusion still increased at the 240th hour. The dynamics of inclusion and distribution is similar in young and grown-up animals. The distribution of the marking phosphorus in the different sections of

Card 2/4

On the Dynamics of Inclusion and Distribution of   SOV/20-126-4-49/62

Radioactive Phosphorus P^{32} in the Tissue of the
Nervous System of White Rats

the central nervous system differs with the individual animals:
the differences express the different character of the metabo-
lism in these animals. The intensity of inclusion increases
with the growth of the embryo and attains its maximum in the
new-born animal. Then it decreases again. The tissue of the
central nervous system of 10 days old rats absorbs P^{32} more
intensively than that of grown-up animals. Thus, the intensity
of the P^{32} inclusion and therefore also phosphorus metabolism
in the neurons and in the different sections of the central
nervous system is not equal and depends on the functional role
and the state of the nerve cells. There are 2 figures, 2 tables,
and 15 references, 10 of which are Soviet.

Card 3/4

On the Dynamics of Inclusion and Distribution of   SOV/20-126-4-49/62
Radioactive Phosphorus P^{32} in the Tissue of the
Nervous System of White Rats

ASSOCIATION: Institut eksperimental'noy meditsiny Akademii meditsinskikh
nauk SSSR (Institute of Experimental Medicine of the Academy
of Medical Sciences, USSR)

PRESENTED: January 2, 1959, by N. N. Anichkov, Academician

SUBMITTED: December 26, 1958

Card 4/4

MANINA, A.A.

Radiosensitivity of nerve cells of a rat's cerebellum under
the influence of β-radiation. TSitologiia 2 no.3:287-295
My-Je '60.   (MIRA 13:7)

1. Institut eksperimental'noy meditsiny AMN SSSR, Leningrad.
      (RADIATION--PHYSIOLOGICAL EFFECT) (CEREBELLUM)

MANINA, A.A. (Leningrad, K-196, Tallinskaya ul., 6-A, kv. 13)

Degenerative and reparative processes in the brain after radiation injury. Arkh.anat.gist.i embr. 39 no.11:33-43 N '60.
(MIRA 14:5)

1. Laboratorii patologii nervnoy sistemy (zav. - prof. Yu.M. Zhabotinskiy) i eksperimental'noy gistologii (zav. - prof. V.P. Mikhaylov) Instituta eksperimental'noy meditsiny AMN SSSR.
(BRAIN) -(RADIATION--PHYSIOLOGICAL EFFECT)

MANINA, A.A.

Radiosensitivity of different parts of the central nervous system
in ontogenesis. Dokl. AN SSSR 140 no.1:232-235 S-O '61.
(MIRA 14:9)

1. Institut eksperimental'noy meditsiny Akademii meditsinskikh nauk
SSSR. Predstavleno akademikom N.N.Anichkovym.
 (X RAYS--PHYSIOLOGICAL EFFECT) (BRAIN) (SPINAL CORD)

MANINA, A.A. (Leningrad P-22, Kirovskiy pr., 69/71, kv.15)

Radiation injuries and their reparation in the developing
central nervous system. Arkh. anat., gist. i embr. 42 no.4:
25-33 Ap '62. (MIRA 15:6)

1. Laboratoriya eksperimental'noy gistologii (zav. - prof.
V.P. Mikhaylov) i laboratoriya patologii nervnoy sistemy (zav.
prof. Yu.M. Zhabotinskiy) Instituta eksperimental'noy meditsiny
AMN SSSR.
(NERVOUS SYSTEM)   (RADIATION SICKNESS)   (EMBRYOLOGY)

MANINA, Antonina Alekseyevna; KNORRE, A.G., red.

[Radiation lesions and the regenerative processes in the central nervous system of mammals in ontogenesis] Luchevye porazheniia i vosstanovitel'nye protsessy v tsentral'noi nervnoi sisteme mlekopitaiushchikh v ontogeneze. Moskva, Meditsina, 1964. 226 p. (MIRA 17:5)

L 24505-65   EWG(j)/EWT(m)   Pa-4   AFWL/SSD/AMD   S/
ACCESSION NR AM4040593   BOOK EXPLOITATION   B+1

Manina, Antonina Alekseyevna

Radiation injuries and recovery processes in the central nervous system of mammals
in ontogenesis (Luchevyye porazheniya i vosstanovitel'nyye protsessy v tsen-
tral'noy nervnoy sisteme mlekopitayushchikh v ontogeneze), (Leningrad), Izd-vo
"Meditsina", 1964, 226 p. illus., biblio. 1,300 copies printed.

TOPIC TAGS: biology, medicine, nuclear engineering, radiation injury, central
nervous system

PURPOSE AND COVERAGE: This book is intended for radiobiologists, pathomorphologists,
embriologists, and clinicians. It cites the results of experiments on the effect
of various forms of penetrating radiation on the central nervous system of certain
mammals (mice, rabbits, guinea pigs, and other animals). The apparent features of
the radiosensitivity of the central nervous system of animals are clarified. There
is a detailed treatment of the dynamics of the recuperation process after radiation
damage and regeneration of the central nervous system of animals.

TABLE OF CONTENTS [abridged]:

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L 24505-65
ACCESSION NR AM4040593

O

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    of mice -- 11
Ch. II. Effect of ionization radiation on the development of the central nervous
    system of certain mammals -- 35
Ch. III. Effect of external radiation on the central nervous system of mature
    animals -- 141
Ch. IV. Effect of internal beta radiation (P32) on the central nervous system of
    mice during various periods of growth -- 175
Conclusion -- 204
Appendix -- 210
Bibliography -- 212

SUB CODE: LS, NP   SUBMITTED: 14Jan64   NR REF SOV: 202

OTHER: 220

Card 2/2

MANINA, A.A.; KUCHERENKO, R.P.

Submicroscopic changes and processes of regeneration in the
CNS as a reaction to different influences. Cesk. morf. 13 no.2:
158-164 '65

1. Laboratory of Cytology, Institute of Experimental Medicine,
Academy of Sciences of the U.S.S.R., Leningrad.

MANINA, A.K., VEDENEYEVA, Z.I.

Conference devoted to the theoretical basis for the clinical use
of ganglion-blocking and curarelike drugs. Vest.AMN SSSR 13
no.6:70-72 '58   (MIRA 11:7)
            (AUTONOMIC DRUGS)
            (CURARELIKE COMPOUNDS)

MANINA, L. F.

Soil Mechanics

Alkalinization of soils as a measure against filtration from water basins in central black-earth provinces. Gidr. i mel. 5, No. 4, 1953.

Monthly List of Russian Accessions, Library of Congress June 1953. UNCL.

MANINA, L.I.

Effect of the warted aphid (Therioaphis ononidis Kalt.) on yields
of alfalfa grown on irrigated soils of northern Uzbekistan. Trudy
Inst. zool. i paraz. AN Uz. SSR 6:53-64 '56.   (MIRA 10:6)
                    (Tashkent Province--Plant lice)
                    (Alfalfa--Diseases and pests)

KAZAR, D.; MANINGER, Ye. [Maninger, E.]; SABO, L. [Sabo, L.]

Effect of some mechanical factors on healing in medial
varus fractures of the femoral neck. Ortop., travm. i
protez. 24 no.3:11-18 Mr '63.   (MIRA 17:2)

1. Adres avtorov: Budapesht, Institut travmatologii.

SOKOL'SKAYA, A.M.; MAHIOH, L.H.

Triterpene saponins. Vest. AH Kazakh. SSR 11 no.4:74-80 Ap '55.
(MIRA 8:8)

1. Predstavlena deystvitel'nym chlenom AH KazSSR M.I. Goryayevym.
(Saponins) (Triterpenes)

MANIOVICH, A.I.

Drying of casein in vegetable dehydrating plants. Kons. i ov. prom. 14 no.4:15 Ap '59.

(MIRA 12:5)

1.Kaluzhskiy sovnarkhoz.
(Kaluga Province--Casein--Drying)

MANIOVICH, I., inzhener.

Increased concern for mills of the state farm flour milling system
Muk.-elev.prom. 20 no.7:31 Jl '54.   (MLRA 7:8)

1. Khar'kovskiy Oblmel'trest.
   (Grain milling)

MANIOVICH, I., inzh. (Odessa)

Improve the supervision of rural flour-milling enterprises.
Muk.-elev. prom. 29 no.5:29 My '63.   (MIRA 16:7)

(No subject headings)

MANIOVICH, O.Y. [Maniovych, O.I.]

New equipment for the canning industry. Khar.prom. no.4:11-16
O-D '62.   (MIRA 16:1)

1. Starshiy inzh. spetsial'nogo konstruktorskogo byuro prodovol'-
stvennogo mashinostroyeniya Odesskogo soveta narodnogo khozyaystva.
                     (Canning industry--Equipment and supplies)

MANIS, F.

1

V Viscometry of some linear polyesters. Zdeněk Zámorsky, Otakar Baroš, and František Manis (VÚGPT, Gottwaldov, Czech.). Chem. průmysl 9, 352-4(1959).— The viscometric behavior was studied of solns. of cryst. polyesters from p-hydroxybenzoic acid (I) in phenol (II) + 1,1,2,2-tetrachloroethylene (III) (1:3) and from ethylene-glycol (IV) and dehydromucic acid (V) in II + III (1:3 and 1:1) or in tricresol. At 30° the degradation of polyesters in soln. was negligible up to 10 hrs. and increased with increasing content of the aromatic compd. in the solvent; the value of η_{sp} was independent of the shear rate. From the slope of $\eta_{sp}/c = f(c)$ the Huggins const. k' was detd.; for polyesters from I in II + III (1:3) $k' = 0.283-0.207$, for polyesters from IV + V $k' = 0.331-0.344$. The value of k' being independent of mol. wt., the intrinsic viscosity, $[\eta]$, can be calcd. from a single measurement of η_{sp}. With increasing temp. the value of $[\eta]$ for polymers from I decreases; this indicates that II + III (1:3) is a good solvent.

J. Schemm

MANIS, J.
CN

/7

Polarography of carvone and its determination in drugs and essential oils B. Ritter and J. Maniš. *Chem. Listy* 43, 280-7(1940). — Carvone (I) was reduced polarographically in an aq. EtOH soln. contg. 0.1 N LiCl as an electrolyte By means of calibrating curves made with pure I, the contents of I in essential oils and the drugs Semen Carvi and Semen Anethi was estimated. The oil was dissolved in 10 times its vol. of EtOH, dild. with 100 times its vol. distd. H₂O, and mixed with an equal vol. of 0.2 N LiCl It was polarographed under N₂. The drug (2.5 g.) was extd. 6 hrs with EtOH, EtOH was distd., the residue dissolved in EtOH (25 ml.), mixed with 25 ml. 0.2 N LiCl, and polarographed under N₂.   M. Hudlicky

SANTAVY, F.; SULA, B.; MANIS, V.

Isolation of alkaloids from the Senecio viscosus L. and
Senecio rivularis D.C. Coll Cz Chem 27 no.7:1666-1672
Jl '62.

1. Chemisches Institut, Medizinische Fakultat, Palacky
Universitat, Olomouc, und Kreismuseum fur Heimatkunde,
Olomouc.

SOV/65-59-8-3/14

·AUTHORS: Kichkin, G. I; Manishevskiy, V. G. and Rubinshteyn, I. A.

TITLE: Influence of the Chemical Composition of Lubricating Oils on Their Viscosity (Vliyaniye khimicheskogo sostava smazochnykh masel na ikh vyazkostnyye svoystva).

PERIODICAL: Khimiya i Tekhnologiya Topliv i Masel, 1958, Nr.8. pp. 15 - 20. (USSR).

ABSTRACT: One of the most important parameters during the determination of the useful properties of lubricating oils is the viscosity and its dependence on the temperature. It is mainly determined by defining its influence on friction and wear of the lubricated surfaces. The authors investigated two residual oils with a viscosity of 16 cps at 100°C (MT-16). One of these oils was prepared from sulphur-containing petroleum and the other from Emba petroleum. The viscosity between 50° - 100° was tested in a standard capillary viscosimeter and at temperatures of 20° and -40°C in a rotation viscosimeter constructed by V. P. Pavlov (Ref.1). The physico-chemical properties of the investigated oils are given in Table 1. It was found that the viscosity of the oil MT-16 from sulphur petroleum, at -40°C, was 1.6 times lower than for the oil MT-16 obtained from

Card 1/4

Influence of the Chemical Composition of Lubricating Oils on Their
Viscosity.

SOV/65-59-3-3/14

Emba   petroleum (Fig.1). The oils were deresinified
by absorption on silica gel, and their viscosity deter-
mined within the previously defined temperature limits.
It was found that the removal of the resinous substances
lowered the viscosity by approximately 2 cps at 100°C:
from 16.5 to 14.83 for the oil from the S-petroleum and
from 16.4 to 14.4 cps for the oil from Emba petroleum.
Fig.2: viscosity temperature curves of the deresinified
oils. An analysis of the data given in Fig.3 (dependence
of the viscosity on the temperature for naphthenic hydro-
carbons) shows that the anomaly in the viscosity for
naphthenic hydrocarbons separated from the oil MT-16 from
S-petroleum occurs in a wider temperature interval than
for analogous hydrocarbons of the MT-16 Emba   oil.
The degree of structure disintegration is three times
larger for the S-petroleum oil than for the Emba   oil
(3.98 as against 1.37). Values in Table 2 (the viscosities
of fractions of naphthenic and aromatic hydrocarbons)
indicate that aromatic hydrocarbons have a higher degree
of viscosity than naphthenic hydrocarbons, and also that
the chemical composition of the oil from S-petroleum is
more satisfactory with regard to its viscosity-temperature

Card 2/4

Influence of the Chemical Composition of Lubricating Oils in Their Viscosity.

SOV/65-59-9-3/14

properties than the Emba oil. It can, therefore, be seen that sulphur compounds increase the degree of viscosity of the aromatic hydrocarbons and consequently that of the oil itself. After the removal of the sulphur compounds the viscosity of the aromatic hydrocarbons decreases at 100°C by 2.7 cps (from 20.8 to 18.1 cps). At practically identical molecular weight the naphthenic hydrocarbons of the S-oil differ from the naphthenes of the Emba oil by their lower viscosity and larger anomaly in their viscosity. This is due to the fact that the separation of the sulphur compounds lowers the concentration of polycyclic aromatic hydrocarbons. It was confirmed that the naphthenic and mono-cyclic aromatic hydrocarbons are the "carriers" of the anomaly in the viscosity of the lubricating oils, and that the polycyclic aromatic hydrocarbons do not influence the above-mentioned anomaly.

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SOV/65-53-9-3/14

Influence of the Chemical Composition of Lubricating Oils on Their Viscosity.

This anomaly occurs in a defined temperature interval which is characteristic for each type of oil. There are 2 Tables, 4 Figures and 4 Soviet References.

1. Lubricating oils--Viscosity   2. Lubricating oils--Chemical properties   3. Viscosity--Determination

Card 4/4

RUMANIA

MANISOR, Gh., Eng, of the Mechanization Section of the Higher
Council of Agriculture (Sectia de Mecanizare din Consiliul
Superior al Agriculturii).

"New Equipment for Zootechnology."

Bucharest, Revista de Zootehnie si Medicina Veterinara, Vol 13,
No 10, Oct 63, pp 37-41.

Abstract: Presents a number of pieces of equipment produced in
Rumania for the mechanization of operations in farms having ani-
mals. The equipment includes a distributor for concentrated
poultry fodder, a cylindrical poultry watering device and a novel
poultry feeder, a device for grinding and mixing, an electric
radiator for piglets and a rolling-belt device for removing
manure.
     Includes 6 figures.

1/1

BOGOMOLOV, G.V.; VALEDINSKIY, V.I.; KOCHNEV, S.S.; MANIS, M.N.; PANTELEYEVA,
    Ye.N.; POPOV, I.V.; SYROVATKIN, V.G.; FOMICHEV, M.M.;
    BOGORODITSKIY, K.F.; DUKHANINA, V.I.; KRASINTSEVA, V.V.;
    MAKARENKO, F.A.; POKROVSKIY, V.A.; SILIN-BEKCHURIN, A.I.;
    FOMIN, V.M.; SHAGOYANTS, S.A.

    Il'ia Il'ich Kobozev; obituary. Trudy Lab.gidrogeol.probl.
    42:101-102 '62.   (MIRA 15:8)
                    (Kobozev, Il'ia Il'ich, 1908-1961)

ZOTIKOV, Ye.A.; PORESHINA, L.P.; URINSON, R.M.; MANISHKINA, R.P.

Discovery of fixed antibodies on the cells of skin homografts.
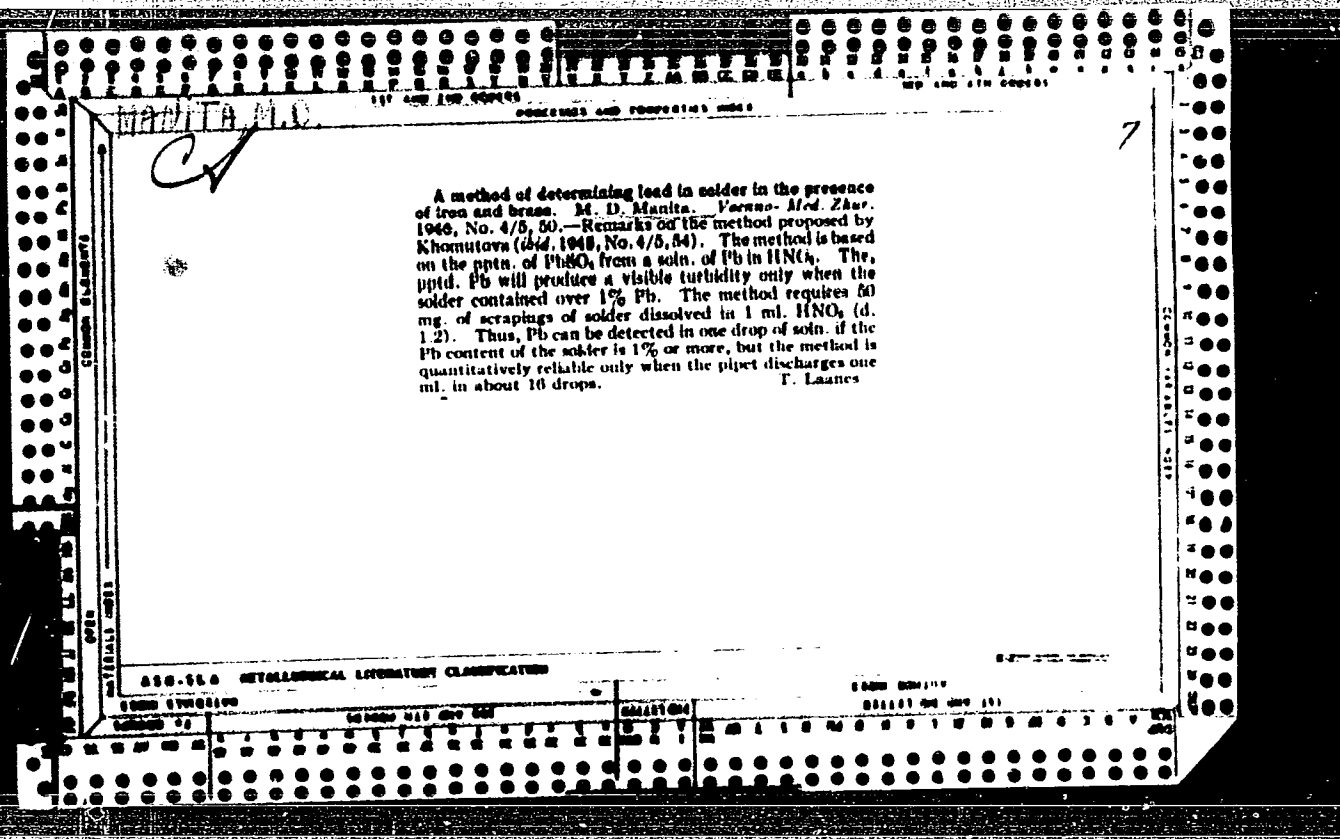Pat. fiziol. i eksp. terap. 8 no.6:52-55 N-D '64.

(MIRA 18:6)

1. TSentral'nyy ordena Lenina institut gematologii i perelivaniya
krovi (dir. - dotsent A.Ye. Kiselev), Moskva.

KOTIKOV, Ye.A.; KO SHKIN, N...; KAYGORODOV, P.I.; KURT L, N...;
        KOSHIN, L.P.

        Some aspects of the study of antileukocyte antibodies. Probl.
        gemat. i perel. krovi 9 no.7:5-9 Jl '64.

        1. (Tsentral'nyy ordena Lenina Institut gematologii i perelivaniya
        krovi (dir. - dotsent A.Ye. Kiselev), Moskva.

7

A method of determining lead in solder in the presence of iron and brass. M. D. Manita. _Varno- Med. Zhur_. 1946, No. 4/5, 50.—Remarks on the method proposed by Khomutova (_ibid_, 1948, No. 4/5, 84). The method is based on the pptn. of $PbSO_4$ from a soln. of Pb in HNO_3. The, pptd. Pb will produce a visible turbidity only when the solder contained over 1% Pb. The method requires 50 mg. of scrapings of solder dissolved in 1 ml. HNO_3 (d. 1.2). Thus, Pb can be detected in one drop of soln. if the Pb content of the solder is 1% or more, but the method is quantitatively reliable only when the pipet discharges one ml. in about 10 drops.   T. Laanes

MANITA, M. D.

MANITA, M. D. - "Colorimetric Methods for Determining the Zinc Contnet
    in Drinking Water During Sanitary-Hygienic Investigations." Sub 26
    Mar 52, Acad Med Sci USSR. (Dissertation for the Degree of Candidate
    in Biological Sciences).

SO: Vechennaya Moskva January-December 1952
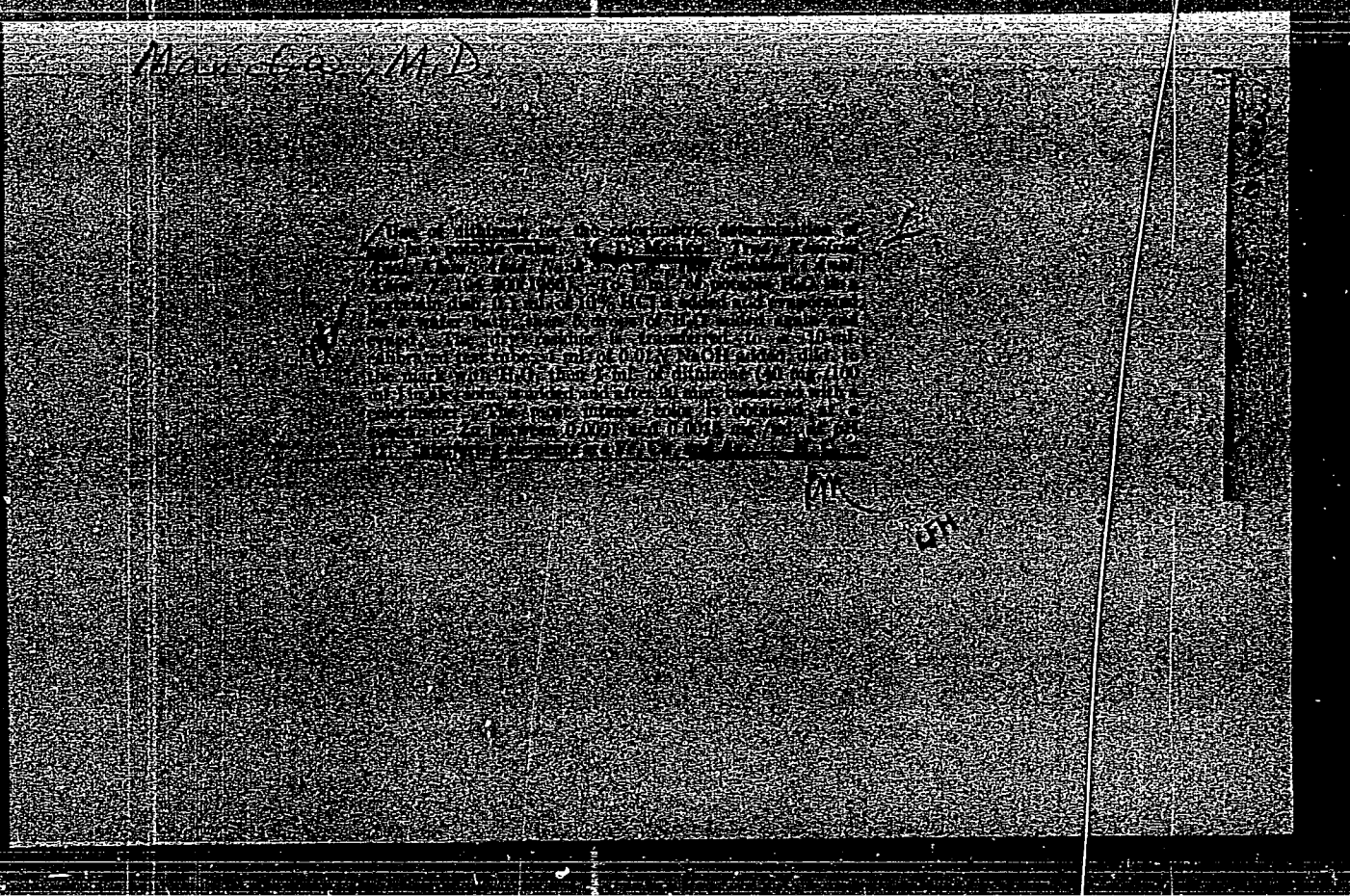
VASIL'YEVA, A.A.; KLYASHITSKAYA, A.L., kand.med.nauk; MANITA, M.D.,
    kand.biologicheskikh nauk

Carboxyhemoglobin content of the blood of traffic controllers.
Gig. i san. 25 no. 12:77-80 D '60.   (MIRA 14:2)

1. Iz Moskovskogy gorodskoy sanitarno-epidemiologicheskoy stantsii.
        (CARBON MONOXIDE) (HEMOGLOBIN)
        (TRAFFIC POLICE—DISEASES AND HYGIENE)

MANITA, M.D., kand.biologicheskikh nauk

Determination of naphthalene in the air of rooms by the
spectrophotometric method. Gig. i san. 26 no.5:47-50 My '61.
(MIRA 15:4)

1. Iz Moskovskoy gorodskoy sanitarno-epidemiologicheskoy stantsii.
(NAPHTHALENE)   (AIR--ANALYSIS)

GABINOVA, Zh. L., sanitarnyy vrach; VASIL'YEVA, A.A., sanitarnyy vrach;
     SKLYARSKAYA, N. Kh., sanitarnyy vrach; MANITA M.D., kand. biolog.
     nauk

Experience in the study of air pollution with 3,4-benzopyrene
in industrial enterprise regions. Gig. i san. 28 no.6:65-69
Je '63.   (MIRA 17:4)

1. Iz Gorodskoy sanitarno-epidemiologicheskoy stantsii Moskvy.

LUNGU, Al.; MANITESCU, Florentina

The evolution of the daily rhythm of the circulating eosinophils
during inanition and resumption of feeding. Stud. cercet. endocr.
13 no.1:31-38 '62.

(EOSINOPHILS)   (NUTRITION DISORDERS blood)
(LEUKOCYTE COUNT)   (PERIODICITY)

DRAGUSANU, M.St.; BELLOIU, D.; AUGUSTIN, M.; MANITESCU, Florentina;
    DRAGOMIRESCU, Maria

Eosinopenia after tolbutamide administration in humans.
Stud. cercet. endocr. 15 no.4:373-378 '64.

POPA, Ioan; MANITIU, Alexandru, corespondent

     From the activity of glass plants. Constr Buc 16 no.777:2
     28 N '64.

     1. Head of Planning Office, Tirnaveni Glass Plant (for Popa).

VOICULESCU, M., Prof.; BRUCKNER, Silvia, conf.; PREDESCU, I. dr.; TANDEL,
Cl., dr.; MARINESCU, Gh., dr.; CIUGARIN, Maria, dr.; COTARCEA,
Sofia, dr.; PAUN, L. dr.; HOTNOG, Eugenia, dr.; MANITIU, Mindruta, dr.

Corticoid hormones in the therapy of neurological virus infec-
tions. Indications and results. Med. intern. (Bucur) 10 no.5:
581-589 My'64.

1. Lucrare efectuata in Clinica de boli contagioase nr.1, I.M.F.
[Institutul medico-farmaceutic], Bucuresti.

CIUGARIN, Maria; MANITIU, Mindruta; ALEXANDRU, Maria

Contribution to the study of the hemagglutination test in the
identification of ECHO viruses. Stud. cercet. inframicrobiol.
15 no.5:455-460 '64.

CIUGARIN, Maria; MANITIU, Mindruta; ALEXANDRU, Maria

Aspects of the isolation of enteric viruses from the cerebro-
spinal fluid in the years 1961-1963. Studii cercet. infra-
microbiol. 15 no.6:543-555 '64

RUMANIA   616.988:616.3-07:616.15

CIUGARIN, Maria, MANITIU, Mindruta, and IONESCU, Brindusa, of
the Clinic No I of Infectious Diseases (Clinica I de Boli Infec-
tioase) and IMF [Institutul de Medicina si Farmacie; Medical-
Pharmaceutical Institute] Bucharest.

"The Hemagglutination Inhibition Reaction in the Diagnosis of
Enteroviroses."
Bucharest, <u>Studii si Cercetari de Inframicrobiologie</u>, Vol 17,
No 3, 66, pp 189-196

Abstract: The authors studied hemagglutination inhibition anti-
bodies in comparison with neutralizing antibodies in a small
number of patients, in an attempt to utilize the hemagglu-
tination inhibition reaction in the diagnosis of enteroviroses.
In another study, favorable results were obtained with the use
of the hemagglutination inhibition reaction for the identi-
fication of some types of ECHO hemagglutinating viruses.
       Includes 2 tables and 15 references, of which one
Rumanian and 14 Western.

1/1

RADULESCU, Ermina; MANITIU, Rodica

Influence of the number of revolutions and compression
ratio on the volumetric efficiency in one-stage compressors.
Constr mas 16 no.10:552-557 O '64.

L 64360-65   EPA/EWT(1)/EWP(f)/EWG(v)/T-2   WW

ACCESSION NR: AP5023499

AUTHOR: Radulescu, Ermina; Manitiu, Rodica

RU/0018/64/000/010/0552/0557

TITLE: Influence of the number of revolutions and the compression ratio on the volumetric efficiency in one-state compressors

SOURCE: Constructia de masini, no. 10, 1964, 552-557

TOPIC TAGS: compressor design, propulsion engineering

ABSTRACT: [Authors' English summary modified]: The authors devise a characteristic equation connecting the number of revolutions per minute with the compression ratio of com- pressors and calculate the coefficients for a number of typical values. Experimental results agree well with the calculated values (with the experimental curve lying somewhat above the theoretical one) so that the method may be used to select optimal parameters in the design of compressors. Orig. Art. Incl.: 1 figure, 28 formulas, 6 graphs, and 4 tables.

ASSOCIATION: none

1/2

L 64360-65

ACCESSION NR: AP5023499

SUBMITTED: 00   ENCL: 00   SUB CODE: PR

NR REF SOV: 000   OTHER: 000   JPRS

2/2

P/031/62/007/001/013/021
D265/D308

q.2510

AUTHOR: Manitius, Andrzej

TITLE: A basic amplifier for the process control equipment

PERIODICAL: Archiwum automatyki i telemechaniki, v. 7, no. 1-2,
              1962, 231 - 241

TEXT: The magnetic transistor-amplifier consisting of a magnetic
summator, pulse width modulator and a switching transistor designed
for the new Polish process control unit of the PID type is descri-
bed. A diagram is given for which the experimental control and load
characteristics are provided. Static and dynamic properties are in-
cluded. Simplicity of construction, reliability of operation and
adaptability for other systems such as summation and amplification
of two signals, galvanic separation and d.c. current to voltage con-
version have thus been achieved. There are 8 figures and 1 table.

ASSOCIATION: Politechnika Warszawska, katedra automatyki i teleme-
              chaniki (Warsaw Polytechnic Institute, Department of
              Automation and Remote Control Engineering)

Card 1/1

MANITIUS, A.

ZYDOWO, M.; BILAWSKI, W.; CHYREK-BOROWSKA, S.; JUSKO, J.; MANITIUS, A.;
NIEMIRO, R.; WOLOWSKI, R.

Effect of adrenalin on certain biochemical changes in normal man.
Acta physiol. polon. 5 no.4:620-621 1954.

1. Z Zakladu Chemii Fisjologicznej w Gdansku. Kierownik: prof. dr
W.Mozolowski.
       (EPINEPHRINE, effects,
          on blood)
      (BLOOD, effect of drugs on,
          epinephrine)

TI
MANIUS, Andrzej
Λ

Content of potassium in blood serum in normal conditions in
humans. Acta biochim. polon. 2 no.3:231-248 1955.

1. Zaklad Chemii Fizjologicznej Akademii Medycznej w Gdansku
Kierownik: prof. dr. Wlodzimierz Mozolowski.
        (BLOOD,
             potassium, normal level in humans. (Pol))
        (POTASSIUM, in blood,
             normal level in humans. (Pol))

EXCERPTA MEDICA   Sec. 6   Vol. 11/4   Apr.   57

MANITIUS A.

2087. MANITIUS A. Dept. of Biochem., Sch. of Med., Gdańsk. °Potassium content in the blood serum of healthy man BULL.ACAD. POLON.SCI. 1955, 3/5 (159-161)

A method of obtaining serum for K determinations which prevents an outflow of K ions into plasma is described. The blood is centrifuged immediately after collection in tubes coated with a thin layer of solid paraffin. On the 41 sera obtained in this way from subjectively healthy persons of both sexes aged 16-30 yr., K determinations were made simultaneously by Barry-Rowland's colorimeter method and by flame photometry. The mean normal K level in serum is given as 4.25 mEq./l. with a standard deviation of 0.25 mEq./l. No essential sex or age differences in K level were observed.   (II, 6)

MANITIUS, A.

486. Potassium/calcium ratio in blood serum of healthy subjects. R. Niemiro and A. Manitius *Bull. Acad. polon. Sci.*, 1956, 4, 203–205 (Dept. of Physiol.-Chem., Sch. of Med., Gdansk, Poland).—The results of the determinations of the K/Ca and K/diffusible Ca ratios in the blood of 30 persons are shown in tabular form. The variation in the results for K/diffusible Ca ratio from 2·23 to 3·40 do not justify any conclusion. P. Haas

MANITIUS, Andrzej; BIELAWSKI, Wlodzimierz; NIEMIRO, Ryszard

Normal values of certain physical properties and chemical components of the blood serum in normal subjects. Polski tygod. lek. 11 no.23:1009-1015 4 June 56.

1. Z Zakladu Chemii Fizjolg. A.M. w Gdansku; kierownik: prof. Wlodzimierz Mozolowski. Gdansk, Zaklad Chemii Fizjologicznej A.M. w Gdansku, ul. Rokossowskiego 42.
    (BLOOD,
        chem. & physical values in normal cond. (Pol))