



Segin

Reel # 240  
KOLOTYY, S.G.  
to

KOLOTYI, S.G.; KOTOMIN, V.A.; EPEL'BAUM, M.L.; NAUMOV, P.A.

Increasing the productivity of cement mills and reducing power consumption during grinding. Prem. energ. 12 no.3:25 Mr '57.  
(Cement plants) (MIRA 10:4)

h16h2  
S/185/62/007/009/003/006  
0234/D308

24,6800

AUTHORS: Vertebnyy, V.P. and Kolotyy, V.V.

TITLE: Design of a neutron monochromator consisting of several discs with a longitudinal axis of rotation

PERIODICAL: Ukrayins'kyy fizychnyy zhurnal, v. 7, no. 9, 1962, 975-979

TEXT: The authors deduce an approximate equation for the path of a neutron and apply it to the calculation of the maximum possible number of slots in rotors consisting of two, three and four discs. This number is found to be  $2\pi R / (2s + 2a)$ , where R is the distance of the neutron from the axis of rotation, 2a the distance between slots and 2s the slot width. They also quote expressions for the resolving power and an approximate formula for the intensity of neutrons at the output. It is concluded that the weight of the rotor can be made several times smaller than in designs without slots. There are 4 figures. f

Card 1/2

Design of a neutron ...

S/185/62/007/009/003/006  
D234/D308

ASSOCIATION: Instytut fizyky AN URSR Kyiv (Institute of Physics,  
AS UkrSSR, Kiev)

SUBMITTED: January 30, 1962

Card 2/2

h16h3

S/135/62/007/009/004/006  
D234/D308

24.6800

AUTHORS: Vertebnyy, V.P. and Kolotyy, V.V.

TITLE: The shape of neutron pulse and the transmission function of a two-rotor neutron chopper. I. Choppers with plane slots

PERIODICAL: Ukrayins'kyy fizychnyy zhurnal, v. 7, no. 9, 1962, 980-991

TEXT: The calculations are first made for the case of a single rotor, a problem which was already considered by V.I. Mostovoy and others. The calculations are then extended to the case of two rotors. The transmission function is found to be

$$f(z, \alpha) \equiv f_1(z, \alpha) = 1 - \frac{2}{3} z^4 - 4|\alpha|z^2 + 8 \left( \frac{|\alpha|}{2} + \frac{\alpha^2}{4} + \frac{|\alpha|^3}{24} \right) z^4 \quad (13a)$$

if  $0 \leq |\alpha| \leq 2$  and  $0 \leq z \leq \frac{1}{2}$

$$f(z, \alpha) \equiv f_2(z, \alpha) = \frac{16}{3} \frac{1}{1 + \frac{|\alpha|}{2}} z'(1 - z')^2 \left( 1 + \frac{z'}{2} \right) \quad (13b)$$

Card 1/3

... the intensity of the neutrons is larger in the case of two-rotor chopper, the background and time resolution being about the same as in single-rotor choppers. Phase displacement must be maintained with high accuracy. There are 12 fig-

Card 2/3

The shape of neutron pulse ...

S/185/62/007/009/004/006  
D234/D308

ures and 2 tables.

ASSOCIATION: Instytut fizyky AN URSR Kyyv (Institute of Physics,  
AS UkrSSR, Kiev)

SUBMITTED: February 21, 1962

Card 3/3

S/089/62/012/004/007/014  
B163/B102

AUTHORS: Vertebnyy, V. P., Vlasov, M. F., Kolotyy, V. V., Maystrenko, A. N., Pasechnik, M. V.

TITLE: Spectrum of slow neutrons from the horizontal channel of a BBP-M (VVR-M) reactor

PERIODICAL: Atomnaya energiya, v. 12, no. 4, 1962, 324-326

TEXT: The energy distribution of slow neutron from a horizontal channel beginning in the active zone of a VVR-M reactor at the Institut fiziki AN USSR (Institute of Physics, AS UkrSSR) was measured by the time-of-flight method. A 14 cm thick beryllium layer is arranged between the fuel elements and the channel entrance. The measuring arrangement consists of a mechanical interrupter of 300 mm diameter with 26 slits of 0.5 mm width each, which can be rotated at a speed of  $10^2$  to  $10^4$  revolutions per minute, a drift tube of 25 m length and a battery of boron counters. Another arrangement with a 175 m long drift tube is being completed. The time of flight is measured by means of a multichannel time analyzer MBA-1 (IVA-1), developed in the laboratory of nuclear electronics of the Card. 1/2



L 11392-63

EWT(m)/BDS AFFTC/ASD

S/120/63/000/002/035/041

51

AUTHOR: Vertebnyy, V. P., and Kolotyy, V. V.

TITLE: The transmission function for a two-neutron interrupter 19

PERIODICAL: Pribory i tekhnika eksperimenta, March-April 1963, v. 8, no. 2,  
165-167

TEXT: The authors find the form of the neutron bursts and the transmission function (relative transparency of the interrupter as a function of neutron velocity) for two-rotor neutron-interrupter systems used for transit-time experiments. The transmission function is closely dependent upon a parameter  $\gamma = T / (2s_1/R)$ , where  $2s_1$  is the width of the input slit,  $\omega$  is the angular velocity of the rotors,  $T$  is the lag between the two rotors, and  $R$  is the radius of the rotors. For relatively large  $\gamma$  and  $\gamma = 1 + \lambda / 2R$  ( $\lambda$  is the distance between the rotors) a two-rotor interrupter operates as a neutron monochromatizer. The Ukrainian journal of physics will carry a detailed discussion of the results obtained. There are three figures.

SUBMITTED: June 19, 1962

Card 1/1 ja/ch

L 2226-66 EWT(m)/EPF(c)/ETC/EPF(n)-2/ENG(m)/EWA(h) WW/DM

ACCESSION NR: AP5023764

UR/0089/65/019/003/0250/0252

539.172.4:539.170.2

AUTHOR: <sup>44.55</sup>Vertebnyy, V. P.; <sup>44.55</sup>Vlasov, M. F.; <sup>44.55</sup>Kir'yanov, A. L.; <sup>44.55</sup>Kolotyv, V. V.; <sup>44.55</sup>Pisanko, Zh. I.; Trofimova, N. A.

<sup>44.55</sup>TITLE: Total neutron cross sections of Re super 185 and Ra super 187

SOURCE: Atomnaya energiya, v. 18, no. 3, 1965, 250-252

TOPIC TAGS: neutron cross section, rhenium, nuclear energy level, thermal neutron

ABSTRACT: The total neutron cross sections of the separated isotopes Re<sup>185</sup> and Re<sup>187</sup> were determined in the resonance, thermal, and cold energy range. The measurements were carried out on the VVR-M nuclear reactor of the Institut fiziki AN USSR (Institute of Physics, AN SSSR) by using the time-of-flight technique. The cross section of Re<sup>187</sup> obeys the 1/v law in the range below 0.5 - 2 e.v., and that of Re<sup>185</sup>, below 0.08 e.v. The contribution of positive levels to the thermal cross sections of Re<sup>185</sup> amounts to about 56%, and that of Re<sup>187</sup> to about 3% of the total cross section. Analysis of the thermal cross sections show that for Re<sup>187</sup> the energy of the negative level closest to zero is Card 1/2

43  
B

E 2226-66

ACCESSION NR: AP5023764

10 e.v.  $\gg |E_0| \gg 5$  e.v., and for  $\text{Re}^{185}$ ,  $|E_0| \gg 10$  e.v. The neutron widths given for these levels are at least 15 times greater than the average widths of the positive levels. The total cross section of  $\text{Re}^{185}$  at 2200 m/sec is  $118 \pm 2$  barn, and that of  $\text{Re}^{187}$  it is  $90 \pm 2$  barn. Orig. art. has: 3 figures, 2 tables, and 1 formula.

ASSOCIATION: None

SUBMITTED: 15Dec64

ENCL: 00

SUB CODE: NP

NO REF SOV: 005

OTHER: 003

Card 2/2

VERTEBNYY, V.P.; VLASOV, M.F.; KHELYUK, A.L.; KOLOTYY, V.V.; PISANKO,  
Zh.I.; TROFIMOVA, N.A.

Total neutron cross sections of Re<sup>185</sup> and Re<sup>187</sup>. Atom. energ.  
19 no.3:250-252 S '65. (MIRA 18:9)

KOLOUCH, J., inz.

Mechanical mounting of optical elements in instruments. Jemna mech tech  
6 no. 7:208-212. JI '61

1: Ustav pro vyzkum optiky a jemne mechaniky, Prerov.

L 20212-66 EWT(d)/EWP(1)/T DJ/RF

ACC NR: AP6010338

SOURCE CODE: CZ/0002/65/015/037/01.12/0505

AUTHOR: Kolouch, J. (Engineer)

ORG: Secondary Industrial School of Engineering, Plzen (Stredni prumyslova skola strojnicka)

TITLE: Calculating and designing polyamide gears

SOURCE: Strojirenstvi, v. 15, no. 7, 1965, 498-505

TOPIC TAGS: polyamide, mechanical engineering, mechanical power transmission device

ABSTRACT: This is the second part of a study. The present article deals with some calculating and designing problems resulting from specific properties of the material. Several calculating methods are described and compared. The design of the gear must also be adapted to the manufacturing process, machining operations, etc. Instructions are given on methods of assembly, inspection procedure and measurement of wear. This paper was presented by K. Zeman, Engineer, Doctor. Orig. art. has: 14 figures, 6 formulas, and 1 table. [JPRS]

SUB CODE: 13, 11 / SUBM DATE: none / ORIG REF: 009 / OTH REF: 016

SOV REF: 001

Card 1/1 MJS

UDC: 621.834:679.577.2.06

KOLOUCH, J., inz.

Polyformaldehyde. Strojirenstvi 13 no.6:429-441 Je '63.

1. Stredni prumyslova skola strojnicka, Plzen.

KOLOUCH, Ludek, MUDr.

Iatrogenic diseases in internal medicine. Voj. zdrav. listy.  
34 no.2:84-87 Ap '65

1. Poliklinika MNO, Praha.



KOLOUCH, Zd.

Experiences with diagnosis and therapy of brucellosis. Cas. lek.  
cesk. 94 no.39:1056-1059 23 Sept 55.

I. Z Infekčního oddělení KUNZ v Ústí n. L. Přednosta prim.  
MUDr. Zd. Kolouch.  
(BRUCELLIOSIS,  
diag. & ther.)

KOLOUCH, Zdenek; VONKA, Vladimir

Treatment of hepatic coma and of severe cases of infectious hepatitis with cortisone. Cas. lek. cesk. 95 no.48:1336-1339  
30 Nov 56.

1. Infekcni Oddeleni KUMZ v Usti n. L. Prednosta prim. Dr.  
Zd. Kolouch.

(COMA, ther.

cortisone in hepatic coma (Cz))

(HEPATITIS INFECTIOUS, ther.

cortisone (Cz))

(CORTISONE, ther. use

hepatic coma & infect. hepatitis (Cz))

KOLOUCH, Zdenek

(3)

SURNAME, Given Names

Country: Czechoslovakia

Academic Degrees: MD

Affiliation: Infectious Diseases Department Kraj Institute for People's Health (Infekční oddelení KUNZ) Chief: Dr. Z. KOLOUCH

Source: Prague, Praktický Lekar, Vol 41, No 15-16, Aug 21, 1961; pp 687-690

Data: "Undesirable Effects of Antibiotics Occurring During Treatment of Infectious Diseases"

KOLOUCH, Zdenek  
KOSINA, Frantisek

cls?

GPO 781643

CA

Foods - 12

A biochemical study and evaluation of the hays of certain green fodders on the basis of classical analyses and amino acid quality. Jaroslav Kotoňek and C. Barrie Coulson (Vysoká škola zeměp. inž., Prague, Czech.). *Sborník Českoslo. Akad. Zemědělsk. 23*, 163-80 (1952).—The chem. and chromatographic analyses of the amino acids in ext. and hydrolyzates of hays indicate that in the belts cultivating potato and wheat, it is advisable to plant red clover and orchard grass. Alfalfa is not suitable under these conditions, although biologically it is as valuable as red clover and orchard grass. In the belts cultivating sugar beet and eye, alfalfa produces the most suitable hay in the third vegetational phase (early blossom). The qual. analyses of the amino acids in the hydrolyzates and semiquant. analyses in the exts. indicate the qual. and quant. differences in the amino acids and that the relative cmts. of the free amino acids agree with the analytically deduced values of the amides. The amt. of ash in fiber might serve as a measure of the digestibility of the fiber. Cf. preceding abstr. Jan Mícha



KOLOUSEK, J.

Chemical Abst.  
Vol. 48 No. 4  
Feb. 25, 1954  
Foods

Amino acids in cheese. J. Kolousek and S. Melnik. *Vysk. listy 6*, 99(1953).—The free amino acids of various cheeses are identified by 2-dimensional paper chromatography. The cheeses were Czechoslovak Ementaler, "Zlato" (cf. Italian Bel Paese), "Niva" (Czechoslovak Roquefort) and "Moravský bochník" (a cheese of Czechoslovak origin). The following amino acids were identified: aspartic acid, glutamic acid, serine, glycine, threonine, alanine, valine, methionine, tyrosine, tryptophan, phenylalanine, leucine, isoleucine, proline, histidine, lysine, arginine. In certain cheeses (especially in Niva extra) cysteine, sarcosine (?), citrulline,  $\alpha$ -aminobutyric acid,  $\gamma$ -aminobutyric acid, asparagine, glutamine, histamine, and tyrosine were found. Moravský bochník, ripened in paraffin wax, did not differ from that ripened without. C. B. Coulson

KOLOUSEK, J.

KOLOUSEK, J.

The occurrence of pipercolinic acid in vegetative substances [with  
summary in English]. Sbor.Chekh.khim.rab. 18 no.4:569-570 Ag '53.  
(MLRA 7:6)

1. Agrobiological Laboratory, Agricultural University, Prague.  
(Pipercolinic acid)

KOLCUSEK, JAROSLAV

Czechoslovakia

CA: 47:12756

Vysoka skola zem., Prague, Czech.

"Amino acids of Galega officinalis."

Sbornik Ceskoslov. Akad. Zemedelske 26, 221-8 (1953).



KOLOUSEK, Jaroslav

3

Electrophoresis on filter paper in agricultural biochemistry. I. Separation and evaluation of the serum proteins of domestic animals. Milan Kutáček and Jaroslav Koloušek [Vysoká škola zemědělská, Prague, Czech.]. *Ročník Českoslo. Akad. Zeměděl. Věd* 26A, 575-86(1953).—A simplified method for the electrophoresis of proteins in bovine and horse serum on filter paper with an automatic scanner for the quant. evaluation, giving reproducible results, is described. The results have been averaged statistically and compared favorably with the results by standard Tiselius electrophoresis. Standard values for the protein fractions of normal horse and bovine serum are given. A fraction has been found in electropherograms of horse serum which behaves towards dyes in the same manner as the other protein fractions and travels towards the anode ahead of the albumin fraction. It was denoted α. Jan Mlýnský

Chemical Abst.  
Vol. 48 No. 9  
May 10, 1954  
Biological Chemistry

**KOLUSEK, J.; KUTACEK, M.**

Effect of Strong gravitational field on horse serum proteins. *Gas.  
lek. cesk. 93 no.1:16-18 8 Jan 1953.* (CML 25:5)

1. Of the Agrobiological Laboratory of the Agricultural School, Prague.

KOLOUSEK, J.

(Plant proteins. I. Extraction of hay protein and nitrogen distribution. J. Koloušek and C. B. Coulson (Fac. Agr., Prague, Czech.). *J. Sci. Food Agr.* 5, 126-32 (1954). —Protein N (N of protein insol. at pH 4.5-5.1), alkali-sol. N, and alkali-insol. N were detd. in grass and legume hays. The legumes and grasses showed certain family N compn. differences. Alkali-insol. N was of the same order as N not solubilized by pepsin digestion. Changes in protein-N content of samples obtained at various stages of growth were related to changes in Cu-precipitable protein but not to the total of protein N and alkali-insol. N. Morton Pader

3

4  
KOLOUSEK, Jaroslav

Composition and physiological properties of the stinging nettle (*Urtica dioica*), use as a feeding stuff. Jaroslav Koloušek, Václav Lautner, and Zdeněk Müller (Vysoká škola zemědělská, Prague, Czech.). *Sborník Českoslov. Akad. Zool.* 17: 27A, 113-14 (1954). -- Org. and mineral nutrients in stinging nettle (*Urtica dioica*) (1) are higher than in any kind of grass hay, including alfalfa, which is regarded as the best of domestic feeds. Fresh 1 contains (mg. %) 2.95 of carotene, 9.7 of lycopene and xanthophyll, and 1.85 of chlorophyll. Semiquant. analyses by paper partition chromatography have shown that exts. of 1 contain all the essential amino acids and that the amt. of bound amino acids is twice as high as in alfalfa and clover. Feeding expts. with white rats have shown 10% and with chicks (Rhode Island) as high as 22-23% increase in wt. and 5% increase in hemoglobin. 1 is recommended for its high biol. value as a very valuable feed for chickens. 36 references. J. M.

✓ Soil humus problem. II. Amino acid composition of the hydrolyzates of humic acids in different soil types.

Zemlin, V. S. *Tr. Vsesoyuzn. nauch. issled. inst. humus. khim.* 1964, 12, 1-10.

*Zemlin, V. S. 27A, 207-12 (1964); cf. C. A. 48, 7820a.*

The qual. amino-acid compn. of the acid hydrolyzates of humic acids isolated from different soil types (chernozem, brown, and podzolic soils) was found by paper partition chromatography. The amino acids found were: glycine, alanine, aspartic acid, glutamic acid, valine, leucine, isoleucine, methionine, and cysteine. There was no difference in qual. amino acids compn. in different soil types. The amino acids in the acid hydrolyzates of humic acids show the polypeptide chain structure.

J. R. Miska

(2)

KOLOUSEK, JAROSLAV

✓ Nitrogenous constituents and metabolites of *Penicillium roqueforti* Jaroslav Koloušek and Stěpán Michálek (Výzkumná škola zemědělská Příbram, Státní ústřední ústav zemědělský, Vzd. 27A, 281-8(1954)(English summary).—*Penicillium roqueforti* (V) grown on Czapek medium, contg. in 1000 ml. H<sub>2</sub>O, 30 g. sucrose, 2 g. NaNO<sub>3</sub>, 1 g. K<sub>2</sub>HPO<sub>4</sub>, 0.5 g. MgSO<sub>4</sub>, 0.5 g. KCl, and 0.01 g. FeSO<sub>4</sub>, synthesized the following free and bound amino acids, detd. by the paper partition chromatographic method: cysteine, aspartic, and glutamic acids, serine, glycine, threonine, α-alanine, tyrosine, histidine, lysine, arginine, proline, γ-aminobutyric acid, valine and methionine, phenylalanine, leucine and isoleucine, tryptophan, methionine sulfone and methionine sulfoxide. It gives off back into the medium aspartic and glutamic acids, serine, threonine, α-alanine, valine and methionine and leucine with isoleucine. Jan Miska

①

Handwritten text, possibly a signature or initials, appearing at the top of the page.

**CZECH**

The feeding value of *Galga effinalis*. P. Jankov, J. Kolouch and Z. Müller (Výzkumný ústav živočišné výroby CSAZV, Uhřetřetev, Czech). *Šlecht. zvířat. Akad. zeměp. Věd, Ser. A*, 27, 283-84 (1954).—Lab. expts. show that the protein quality of *G. effinalis* (I) is as good as that of lucerne and it exceeds in quantity. Seeds of I contain 0.5% of alkaloid galgine. Feeding expts. with growing cows show that 40-60 g. of seeds of I can be fed per cow to cow animal. Dairy cows can be fed as much as 0.5 kg. of I hay per day per single animal, this results in higher yield of butterfat and milk.

Koloušek Jaroslav

CZECH

✓ Paper chromatographic analysis of amino acids in plant material. Jar. Div. Koloušek (Vysoká škola zemědělská, Prague). *Ročník vědecké stud. Zeměd. Vzd. 27A, 1641-70 (1964)*. A detailed procedure for paper chromatographic analysis of amino acids including a no. of new improvements in technique is given. A quant. method giving very satisfactory results is described. This method is recommended for agricultural research work. *See also: 1641-70*



KOLOUSEK J. and HUTACEK M.

Agrobiochem. Lab. Vysoké Skoly ze med<sup>1</sup>, Praha. \* Zpráva o vlivu silného gravitačního pole na kůnské serové bíkoviny. A study of horse serum proteins with the ultracentrifuge. CAS. LÉK.ČES. 1954, 93/1 (16--18) Tables 3

An ultracentrifuge with air-driven rotor, constructed by B. Cizinsky (Cas.lék.čes. 1954, 93/1, 10) was used. Before and after centrifugation at 125,000 r. p. m. for 30 min., paper electrophoresis of the serum was performed. The refractive index (I), NPN (II) and proteins precipitable with trichloroacetic acid were also determined. Paper electrophoresis showed no statistically significant differences, I was increased on the average by 0.0028 and II about 2-fold and the N content of the precipitate obtained with trichloroacetic acid was lowered. These findings support the idea that centrifugation at high speed (160,000 g) results in splitting of protein molecules, which is accompanied by an increase of products not precipitable with trichloroacetic acid. Using ultrasound, no detectable effects on serum were observed when testing in the same manner.

Heyrovsky - Prague

SO: Excerpta Medica Section II Vol 7 N. 12

KOLOUSEK, Jaroslav; KUTACEK, Milan; BILEK, Jiri

Paper chromatography of galegine sulfates. Cesk. farm.  
4 no.4:188-190 May 55.

1. Z agrobiologicke laboratore Vysoke zemedelske v Praze.  
(ALKALOIDS  
galegine sulfate, paper chromatography)  
(CHROMATOGRAPHY  
of galegine sulfate)

Koloušek, J.

CZECH

V. Plant proteins. II. Amino acid content of the seed protein of *Fragaria foetida-graecum* and of the seed protein and thallus protein of *Galera officinalis*. J. Koloušek and C. B. Coulson (Technická 1103, Prague). *J. Ser. Food Hyg.* 6, 201-6 (1965); cf. *C.A.* 43, 7139d. — Aik. insol. N, alk. sol. N, and protein N were detd. after isolating the proteins from seeds and thallus of *Galera* and the seeds of *Fragaria*. The approx. quant. amino acid compn. of the proteins was detd. by means of a rapid paper chromatographic method and found to be comparable to that of the seed proteins of dicotyledonous plants. Merton Pader.

Koloušek, J.

MD ✓ Plant proteins. IV. Amino acids present in alcoholic extract of grass and legume hays and fenugreek seeds. J. Koloušek and C. B. Coulson (Czech. Acad. Sci., Prague). *J. Sci. Food Agr.* 6, 455-61 (1955); cf. *C.A.B.* 47, 1323.

Amino acids were detd. in a% exts. of lucerne hay cut in different growth stages and of mature grass and legume hays. Some amino acids of the lucerne hay were not in the exts. of the mature grass. The percentage of the total N at each stage. Differences were found in asparagine-aspartic acid content of lucerne hay from different sources. Differences in amino acid content owing to muzzing were found also. Ale. exts. of fenugreek seeds contain free amino acids, and many are present in the neutral stage.

KOLOUSEK, Jaroslav

Prague, Czechoslovakia

*a new method of study of amino acids and peptides in tissues*  
"Eine neue Methode zum Studium der Aminosäuren und Peptide in Geweben," by  
Jaroslav KOLOUSEK, Physiologisches Institut der Tschechoslovakischen Akademie  
der Wissenschaften, Prag XIX.

SOURCE: Die Naturwissenschaften, 15 Aug 56, Unclassified.

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000824010001-5

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000824010001-5"

IODIN, Z.; KOLOUSEK, J.

Metabolism of methionine and methionine sulfoximine in relation to function of the central nervous system. *Physiol. bohém.* 5: 43-46 Suppl. 1956.

1. Institute of Physiology, Czechoslovak Academy of Sciences, Prague.

(METHIONINE, metab.

CNS, inhib. induced by 3-amino-3 carboxypropyl methyl sulfoximine in rats)

(CENTRAL NERVOUS SYSTEM, metab.

methionine, induction of inhib. by 3-amino-3-carboxypropyl methyl sulfoximine in rats)

LODIN, Zdenek; KOLOUSEK, Jaroslav

Epileptic symptoms induced by methionine sulfoximine. *Česká slovenská*  
*neur. logie*  
19 no.2:83-89 May 56.

1. Z Fysiologickeho ustavu CSAV v Praze.

(EPILEPSY, experimental,  
methionine sulfoximine induced (Cz))

(METHIONINE, derivatives,  
methionine sulfoximine causing epilepsy in animals (Cz))



Koloushek

Czechoslovakia/Plant Physiology Growth and development H-5

Abs Jour : Referat. Zh - Biol., No 6, 25 March 1957, 22402

Author : Nemtsova-Fabiazova, Koloushek

Inst : Not given

Title : The study of the effect of vernalization on the development of broad bean and some biochemical changes during vernalization.

Orig Pub : Sbor. Ceskosl. akad. zemed. ved. Rada-Rostl. vyroba, 1956, 29, No 2, 155-172

Abstract : Vernalization of beans of Flumetski, Przherovski and Zborovitski varieties caused a speed-up of flowering and ripening, a uniform bean ripening and a harvest increase. The best results were obtained in vernalization of Flumetski variety beans in a period of 10-15 days at +5°. During vernalization proline appeared in sprouted seeds and the content of free amino acids increased.

Card 1/1

-29-

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Laboratory construction of paper chromatography  
Procedures for the construction of a laboratory  
are given with designs

2

\*KOLOUSEK, J.  
\*FISCHER, J.  
\*LODIN, Z.

Incorporation of Methionine (Sulphur-35) into the Central Nervous System.  
Laboratory of Neuropathology, Institute of Pathological Anatomy of the  
Medical Faculty, and \*Institute of Physiology of the Czechoslovak Academy  
of Sciences, Prague. Aug 8.

SO: Nature, Vol 178, No. 4542, 17 Nov 1956, Unclass. bak/jak

KOLOUSEK, J.; LIEBSTER, J.; BABICKY, A.

"Radiochemical decomposition of DL-methionine. In German."

p. 874 (Collection of Czechoslovak Chemical Communications, Sbornik Chekhoslovatskikh Khimicheskikh Rabot) Vol. 22, no. 3, June 1957  
Prague, Czechoslovakia

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

KOLOUSEK, Jaroslav

*Paper Chromatography of Amino Acids in urine*  
Jaroslav Kolousek, "Papierchromatographie der Aminosaeuren im Harn," Die  
Naturwissenschaften (Berlin), 44/14, July 1957, p. 398.

Received on 20 May 1957.

The author is affiliated with the Physiological Institute of the CSAV,  
Prague 6, Na cvicisti 2.

KOLOUSEK, J.

Use of a small laboratory supercentrifuge in investigations of free acids and peptides in tissues. p. 177. (Chemicke Listy. Vol. 51, no. 1, Jan. 1957.)

SO: Monthly List of East European Accession (EEAL) LC, Vol. 6, no. 7, July 1957. Uncl.

KOLOUSEK, J.

"Autoradiography by radioisotopes as an efficient tool of biochemistry."

p. 508 (Chemie, Vol. 10, no. 6, June 1958, Praha, Czechoslovakia)

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, no. 9,

September 1958

LODIN, Z.; FISCHER, J.; GUTMANN, E.; KOLOUSEK, J.

Turnover of methionine  $35^8$  in the cerebellar, diencephalic and spinal tissues in normal conditions and following nociceptive stimulation in rats. Cesk. fysiол. 8 no.3:221-222 Apr 59.

1. Fysiologicky ustav CSAV, Praha. Predneseno na III. fysiologickych dnech v Brne dne 14. 1. 1959.

(CENTRAL NERVOUS SYSTEM, metab.

methionine, eff. of pain stimulation in rats (Cz))

(METHIONINE, metab.

CNS, eff. of spin stimulation in rats (Cz))

(PAIN, exper.

eff. on CNS methionine metab. in rats (Cz))



FISCHER, Jindrich; KOLOUSEK, Jaroslav

Investigations on the dynamics of central nervous system incorporation of methionine sulfoxime labeled with sulfur 35 with a special reference to the appearance of experimental epileptic seizures; histocradiographic studies. Sborn. lek. 61 no.4:116-119 Apr 59.

I. II. patologickoanatomicky ustav fakulty vseobecneho lekarstvi University Karlovy v Praze, prednosta prof. dr. V. Jedlicka Neuropatologicka laborator II. patologickoanatomickeho ustavu fakulty vseobecneho lekarstvi University Karlovy v Praze, prednosta prof. dr. V. Jedlicka. Dr. J. Fischer, U nemocnice 4, Praha 2.

(METHIONINE, rel. cpds.

3-amino-3-carboxypropyl methyl sulfoxime labeled by radiosulfur in brain in convulsions in rats, radioautography (Cz))

(BRAIN, metab.  
same)

(CONVULSIONS, exper.  
same)

(RADIOAUTOGRAPHY

of brain 3-amino-3-carboxypropyl methyl sulfoxime labeled with radiosulfur in convulsions in rats (Cz))

PRADAC, J.; KOLOUSEK, J.; SUBERTOVA, E.

On a method for the investigation of slating-out processes. Sborn.  
lek. 62 no. 6:160-172 1960.

1. Biofyzikalni ustav fakulty vseobecneho lekarstvi University  
Karlov v Praze, prednosta doc. dr. Z. Dienstbier.  
(BLOOD PROTEINS chem.)  
(CHEMISTRY ANALYTICAL)

PINTA, Z.; KOLOUSEK, J.

Experience with influencing of the course of epilepsy with methionine. Sborn.lek.62 no.11:332-334 N°60.

1. Biofyzikalni ustav fakulty vseobecneho lekarstvi University Karlovy v Praze, prednosta doc.dr. Z. Dienstbier. Okresni ustav narodniho zdravi, poliklinika v Tabore.  
(EPILEPSY ther)  
(METHIONINE ther)

KOLOUSEK, Jaroslav

Contribution to the study of methionine metabolism in vivo. Acta  
univ. carol. [med.] no.8:911-924 '61.

1. Biofyzikalni ustav fakulty vseobecneho lekarstvi University Karlovy  
v Praze, prednosta doc. MUDr. Z. Dienstbier.  
(METHIONINE metab)

KOLOUSEK, J.; DIENSTBIER, Zd.; MICHALEC, C.

Effect of methionine-sulfoximine on liver and spleen metabolism in the rat. Acta univ. carol. [med.] Suppl. 14:95-102 '61.

1. Biofyzikalni ustav fakulty vseobecneho lekarstvi University karlovy v Praze, prednosta doc. dr. Zd. Dienstbier Laborator pro vyzkum proteinoveho metabolismu a proteosynthesy fakulty vseobecneho lekarstvi University Karlovy v Praze, prednosta prof. dr. J. Horejsi.  
(LIVER pharmacol) (SPLEEN pharmacol)  
(METHIONINE rel cpds)

CZECHOSLOVAKIA

J. KOLONJEK, Biophysical Institute of the Faculty of General Medicine of Charles University (Biofyzikalni ustav fakulty vseobecneho lekarstvi KU [Karlova Univerzita]) Head (prednosta) Docent Dr Z. DIENSTBIER, CSc; Prague; J. KOHOUT, MD, Head, Nerve Department (Nervova oddeleni), OUNZ Strakonice; Z. PINTA, Nerve Department Polyclinic (poliklinika) OUNZ Beroun; and Dr P. BOSKA, Head, Nerve Department of Military Hospital (Vojenska nemocnice), Ceske Budejovice.

"Anti-Epileptic Effect of Methionine."

Prague, Ceskoslovenska Neurologie, Vol 26(59), No 1, Jan 63; pp 21-26.

Abstract [English summary modified]: Perorally dl-methionine 200 to 300 mg. t.i.d. in 38 patients: of 39 with grand mal, attacks decreased 50% in 20, 25% in 12; of 6 psychomotor, 50% decrease in 3; of 9 petit mal, 50% in 6 and 25% in 3; Jacksonian no effect in 2. Effects were best in children. Speculative discussion. Table, 4 Czech, 3 Hungarian, 3 Soviet and 15 Western references.

1/1

KOLOUSEK, J.; BABICKY, A.

Contribution to the study on cerebral metabolism in vivo of  
S35-labeled methionine derivatives in rats. Sborn.lek.63 no.1:  
25-30 Ja '61.

1. Biofyzikalni ustav fakulty vseobecneho lekarstvi University  
Karlovy v Praze, prednosta doc.dr. Z.Dienstbier; Izotopova  
laborator Biologickych ustavu CSAV v Praze.

(BRAIN metab)

(METHIONINE metab)

LOLOUSEK, J.; KOHOUT, J.; PINTA, Z.; BOSKA, F.

Antiepileptic action of methionine. Cesk. neurol. 26 no.1:21-26  
Ja '63.

1. Biofyzikalni ustav fakulty vseobecneho lekarstvi KU v Praze, prednosta  
doc. dr. E. Dienstbier, CSc. Nervove oddelenie OUNZ ve Strakonicech,  
prednosta MUDr. J. Kohout Nervove oddeleni polikliniky OUNZ v Berouně  
Nervove oddeleni vojenske nemocnice v Ces. Budejovicich, prednosta dr.  
F. Boska.

(METHIONINE)

(ANTICONVULSANTS)

(EPILEPSY)



KOLOUSEK, J.; DIENSTBIER, Z.

The effect of x-radiation on the excretion of radioactive phosphorus by the urine in rats. Neoplasma 10 no.4:387-396 '63.

1. Institute of Biophysics, Faculty of General Medicine,  
Charles University, Prague, CSSR.

(PHOSPHORUS ISOTOPES) (RADIATION EFFECTS)  
(METABOLISM) (URINE) (STARVATION)  
(BURNS) (DINITROPHENOLS)

KOLOUSEK, J.; DIENSTBLER, Z.

Urinary excretion of radiocalcium <sup>45</sup>Ca by rats following whole-body irradiation with X-rays. Neoplasma 10 no.5: 507-511 '63.

1. Biophysical Institute, Faculty of General Medicine, Charles University, Prague, CSSR.

\*

DIENSTBIER, Z.; KOLOUSEK, J.; VITEK, F.

Distribution of <sup>32</sup>P in organs of rats after X-irradiation and  
after the administration of TS 160 and methionine sulphoximine.  
Folia biol. (Praha) 10 no.2:135-142 '64

I. Institute of Biophysics, Faculty of General Medicine, Charles  
University, Prague.

\*

GERSENOVIC, Z.S.; KRICEVSKAJA, A.A.; KOLOUSEK, J.

Effect of increased oxygen pressure and methionine sulfoximine on glutamine synthetase activity by rat in vitro. Acta Univ. Carol. [med.] (Praha) 9 no.3:237-244 '63

1. Katedra biochemie Statni university v Rostove na Donu, USSR (vedouci: prof. Z.S. Gersenic) a Biofyzikalni ustav fakulty vseobecneho lekarstvi University Karlovy v Praze (prednosta: doc. MUDr. Z.Dienstbar).

STOJAN, B.; KOLOUSEK, J.; QUELSNEROVA, M.

Effect of posterior pituitary extract on excretion of radio-phosphorus in the urine of animals. Cas. lek. cesk. 103 no.20: 537-539 15 My'64

1. Vyzkumny ustav chorob revmatickych v Praze (reditel: prof. dr. F.Lenoch, DrSc); Biofyzikalni ustav fakulty vseobecneho lekarstvi KU [Karlovy university] v Praze (prednosta: doc. dr. Z.Dienstbier) a Vyzkumny ustav pro farmacii a biochemii v Praze (reditel: dr. inz. O.Nemecek, CSc.).

KOLCUSEK, J.; JIRACEK, V.; CIZINSKY, B.

Use of an air driven ultracentrifuge for the study of free amino acids, peptides, amides and free ammonia in the brain and liver. Sborn. lek. 66 no.6:171-177 Je'64

1. Biofyzikalni ustav fakulty vseobecneho larkstvi University Karlovy v Praze (prednosta: doc. dr. Z. Dienstbier, DrSc.);  
Biochemicky ustav prirodovedecke fakulty University Karlovy v Praze a Lekarska fakulta hygienicka University Karlovy v Praze.

KOLOUSEK, J.; GYORGYI, S.; JIRACEK, V.

The influence of ionizing radiation and methionine sulphoximine on the incorporation and excretion of isotopically labelled glucose and thioglucose in the rat. Neoplasma (Bratisl.) 12 no.4: 385-390 '65.

1. Department of Biophysics, Faculty of Medicine and Department of Biochemistry, Faculty of Science, Charles University, Prague, Czechoslovakia; Institute of Medical Physics, The Budapest University of Medicine, Hungary. Submitted December 14, 1964.

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PROCESSED AND RECORDED 117 400 400 000000

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AMR.

The following material was contributed to the Congress in Genoa, Dec. 1-6, 1949 (Materiały naukowe na VI Zjazd Naukowy PZPTB - Polski Związek Inżynierów i Techników Budowlanych w Genua 1-6 grudnia 1949) (in Polish), Edition of the Polish Ministry of Buildings No. 37, III Wydawnictwo Ministerstwa Inżynierstwa Nr 37, cz. 3 III.

1121. Koleszek, V., Vibrations of statically indeterminate structures subjected to the action of moving, harmonically variable changeable loads, 303-304.

Author bases his work on the analysis of natural vibrations and applies this method to case of a bar which is subjected to the action of a live load moving with constant speed. When resonance takes place between the frequency of the live load and that of its own vibrations, the problem shows important characteristics.

W. Wierzbicki, Poland

Mar. '51

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

117 400 400 000000 117 400 400 000000



Applied Mechanics  
Review

Structures

30

401. V. Kolguteh and J. Blatek, Continuous arches on elastically yielding piers. Theoretical computation compared with results of experimental analysis (in Czech), Techn. Obzor 57, no. 2, 21-28 (Feb. 1949).

If continuous arches are supported by piers resting on elastically yielding soil, the theoretical analysis of internal forces becomes very intricate and cumbersome. It is shown that a relatively quick solution may be obtained by tests on small-size models, such as in the Beggs deformeter method, and that the results corroborate the theoretical analysis. A thorough analysis is presented including influence lines of bending moments, direct stress and shear. A simplified method is proposed which yields satisfactory results as compared with both theoretical and experimental analyses.

J. J. Polivka, USA

1950

KOLOUSEK, Vladimir.

Baudynamik der Durchlauftrager und Rahmen. Leipzig, Fachbuchverlag, 1953.

- 217 p. Tables, Diagr.

Translated from the Czech, "Stavebna dynamika spojitych nosniku a ramovych soustav." 1950.

Bibliographical Footnotes.

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661.6  
.K8

KOLCUSEK, Vladimir

Dynamika stavebnich konstrukci. Praha, Statni nakl. technicke literatury.  
(Dynamics of building constructions. illus.)  
Vol. 1. 1954.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 5, No. 6 June 1956,  
Uncl.

KOLOUSEK, Vladimir, prof., inz., dr., Dr.Sc.

"Calculation and designing of bases for machinery and turbines" by  
Alexander Major. Reviewed by Vladimir Kolousek. Inz Stavby 9 no.10:  
399 0 '61.

KOLOUSEK, Vladimir, prof., ins., dr.

"Oscillation of elastic bodies" by Jan Genda. Reviewed by Vladimir Kolousek. Ins stavby 9 no.11:439-440 N '61.

KOLOUSEK, Vladimir, prof., inz.dr. (Praha 7, Na Maminsch 38)

Vibration systems with nonprismatic bars. Aplikace mat. 8 no.4:  
261-272 '63.

KOLOUSEK, Vladimir

Present development in the dynamics of building constructions. Vestnik GSAV 73 no. 1: 102-107 '64.

1. Clen korespondent Ceskoslovenske akademie ved.

BABUSHKA, I., inzh.; doktor, kand.fiziko-matematicheskikh nauk;  
KOLOUSHEK, V., doktor tekhn.nauk, prof.

Linear theory of internal absorption in vibrating elastic systems.  
Trudy MIIT no.131:57-88 '61. (MIRA 14:5)

1. Chlen-korrespondent Chekhoslovatskoy Akademii nauk, Praga (for  
Koloushek).

(Elastic solids—Vibration)



24.4100

39040  
S/124/62/000/007/003/027  
D234/D308

AUTHORS: Babushka, I. and Koloushek, V.

TITLE: Linear theory of internal absorption during vibrations of elastic systems

PERIODICAL: Referativnyy zhurnal, Mekhanika, no. 7, 1962, 15, abstract 7A120 (Tr. Mosk. in-ta inzh. zh.-d. transp., 1961, no. 131, 57-88)

TEXT: The authors consider stabilized forced vibrations of systems with one degree of freedom. The notion of linear normalized space of continuous periodic functions of a given period is introduced. A linear operator  $A$  is defined, called the operator of internal absorption which represents one linear space  $(C_1)$  on another  $(L_1^2)$ . The problem of forced vibrations is formulated as follows: Let  $A$  be an operator of internal absorption representing  $C_1$  on  $L_1^{(2)}$ . Let  $f(t) \in L_1^{(2)}$ . It is required to find a function  $y(t) \in C_1$  satisfying  
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D234/D308

Linear theory of ...

the equation  $m\ddot{y}(t) + k(1 - \psi A)y(t) = f(t)$ , where  $m$  is the mass,  $k$  the restoring factor,  $\psi$  the coefficient of absorption. For this problem, theorems of existence and uniqueness are proved. The solution is obtained in the form of an infinite system of algebraic equations. The effect of the choice of the operator of internal absorption is analyzed. It is shown that this effect is the smaller the closer the vibrations are to harmonic vibrations. The formulation and solution of the problem in the complex form is considered. The second part of the paper is concerned with aperiodic motion which precedes the stabilized vibrations having a regular hysteresis loop. It is proposed to treat this process as periodic, with an indefinitely large period. As in the case of stabilized vibrations, the concept of a linear normalized space  $L_2$  is introduced. Operator  $B$  denotes an operator giving a transformation of the function  $f(x)$

$\in L_2$  in the form  $Bf(x) = -\frac{1}{\pi} \int_{-\infty}^{+\infty} f(\xi) d\xi / (\xi - x)$ , where the Cauchy

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Linear theory of ...

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D234/D308

integral is to be understood in the sense of its main value. With the aid of this operator, the solution of the problem of non-stabilized forced damped vibrations is reduced to Fourier integrals. To conclude, the possibility of generalization of the linear theory described here is shown and the linear theory of self-excited vibrations is considered. [Abstracter's note: Complete translation.]

Card 3/3

KOLOUSHEK, Vladimir [Koloušek, Vladimir], doktor tekhn. nauk,  
prof.: BABUSHKA, I. [Babuška, I.]; GENRIKH, I. [Henrich, I];  
YERZHABEK, Ya. [Jefabek, J.]; NOVAK, M.; RYCHAGOV, G.D., inzh.  
[translator]; YAKUSHEVA, G.A., inzh. [translator];  
PETROPAVLOVSKIY, A.A., doktor tekhn. nauk, prof., red.

[Structural dynamics. Translated from the Czech] Dinamika  
stroitel'nykh konstruktsii. Moskva, Stroiizdat, 1965. 631 p.  
(MIRA 18:5)

1. Chlen-korrespondent AN Chekhoslovatskoy Sotsialistiches-  
koy Respubliki (for Koloushek).

L 40157-66 EWT(1) SCTB DD

ACC NR: AP6025929

SOURCE CODE: UR/0301/66/012/004/0418/0424

AUTHOR: Bronovitskaya, Z. G.; Garshenovich, Z. S.; Koloushek, Ya.; Zikh, B. 34  
B

ORG: Chair of Biochemistry, State University Rostov-na-Donu (Kafedra biokhimi Gosudarstvennogo universiteta); Institute of Biophysics, Medical School, Karlov University, Prague (Institut biofiziki pri meditsinskom fakul'tete Karlova universiteta)

TITLE: Oxidative phosphorylation of the brain and liver during the action of L-methionine-sulfoximin and increased oxygen pressure 2

SOURCE: Voprosy meditsinskoj khimii, v. 12, no. 4, 1966, 418-424

TOPIC TAGS: brain metabolism, liver metabolism, combined stress, hyperoxia, phosphorus metabolism, oxidative phosphorylation, LIVER, RAT, BIOLOGIC RESPIRATION, BRAIN, BIOLOGIC METABOLISM, PHOSPHATE, OXYGEN

ABSTRACT: L-methionine-sulfoximin (MSI) alters the content of adenylic components in the liver of rats. Six hr after MSI injection, the ADP and ATP content increases (30%), oxidative phosphorylation increases, and respiration is unaltered. Twelve hr after MSI injection there is an increase in the total content of adenylic system components. MSI does not alter the intensity of brain metabolism but depresses esterification of inorganic phosphates (34%). Exposure to oxygen under pressure (4 atm) for an hour increases both respiratory intensity and brain phosphorylation. MSI and increased oxygen pressure together caused an activation of brain phosphoryla-

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UDC: 616.831+616.361-008.921.8-02:[615.777.818+612.274]

L 40157-66

ACC NR: AP6025929

tion compared to the action of MSI alone. The sensitivity of animals injected with MSI to increased oxygen pressure is elevated compared to controls. Apparently, one reason for this is altered phosphorus metabolism. It was concluded that despite the ability of increased oxygen pressure and MSI to precipitate convulsive attacks, their mechanism of action on the phosphorus metabolism of individual tissues differs. [CD]

SUB CODE: 06/ SUBM DATE: 10Feb65/ ORIG REF: 010/ OTH REF: 005/ ATD PRESS:

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212MLP

ZAKHARIN, Veniamin Aleksandrovič; BIRYULIN, V.I., inzh., retsenezent; SO-  
KOLOV, A.I., inzh., red.; BOGOMOLOVA, M.F., red. izd-va; GARNUEKINA,  
L.A., tekhn. red.

[Helicopter] Vertolet. Izd. 2., perer. Moskva, Gos.nauchno-tekhn.  
izd-vo Oborongiz, 1961. 112 p. (MIRA 14:6)  
(Helicopters)

STARODUBTSEV, N.; KOLOV, B.; SUKHAREV, A.; STAROSTENKOV, A.; BOYEV, V.;  
NESTEROV, N.; OGURTSOV, V.

Readers' letters. Izobr. i rats. no.1:30-31 Ja '60.  
(MIRA 13:4)

1. Zaveduyushchiy kabinetom politicheskogo prosveshcheniya zavoda "Krasnyy Aksay," Rostov-na-Donu (for Starodubtsev).
  2. Traktornyy zavod imeni A.A.Zhdanova, g.Vladimir, rukovoditel' kompleksnoy brigady novatorov partorg tsekha, starshiy tekhnolog (for Kolov).
  3. Traktornyy zavod imeni A.A.Zhdanova, g.Vladimir, chlen kompleksnoy brigady novatorov, master otdela tekhnicheskogo kontrolya (for Sukharev).
  4. Zamestitel' predsedatelya soveta Vsesoyuznogo obshchestva izobretateley i ratsionalizatorov fabriki "Iskra Oktyabrya," g.Kostroma (for Starostenkov).
  5. Predsedatel' postroykoma stroytresta No.32, Leningrad (for Boyev).
  6. Zamestitel' glavnogo inzhenera zavoda "Uralkabel'," Sverdlovsk (for Nesterov).
  7. Predsedatel' soveta Vsesoyuznogo obshchestva izobretateley i ratsionalizatorov vagonnogo depo g.Kazatin, USSR (for Ogurtsov).
- (Efficiency, Industrial)



SOV/137-59-3-6437

Translation from: Referativnyy zhurnal. Metallurgiya, 1959, Nr 3, p 214 (USSR)

AUTHOR: Kolov, M. I.

TITLE: Manufacture and Properties of Cold-rolled Dynamo Steel (Tekhnologiya i svoystva kholodnokatanoy dinamnoy stali)

PERIODICAL: Tekhn-ekon. byul. Sovnarkhoz Chelyab. ekon. adm. r-na, 1958, Nr 7, pp 20-24

ABSTRACT: In order to develop a technology for the manufacture of cold-rolled, 0.5-mm thick, dynamo steel of the grades E11, E12, E21, and E31, the phase transformations of steel containing 1.3-1.9% Si were investigated together with the dependence of its magnetic properties ( $P_{10}$  and  $B_{25}$ ) on the conditions of annealing; the parameters of annealing varied within the temperature limits of 700-950°C, the annealing time varying from 4 to 36 hrs. It is established that high magnetic properties may be achieved in steel E21 without the employment of decarburization annealing even at Si concentrations of  $\leq 1.8\%$ .

T. F.

Card 1/1

AUTHORS: Kolov, M.I., and Terekhova, A.I., Engineers SOV/133-58-11-20/25

TITLE: Thermal Treatment of Cold-rolled Dynamo Steel in Coils  
(Termicheskaya obrabotka kholodnokatanoy dinamnoy stali  
v rulonakh)

PERIODICAL: Stal', 1958, № 11, pp 1029 - 1035 (USSR)

ABSTRACT: During the development of the technology of production of cold-rolled dynamo steel, a large proportion of finished sheets (up to 50%) was rejected due to high specific losses. Moreover, large metal losses were caused by corrugation of the edges and of whole sheets due to deformation of coils during heating. During sorting, a part of the sheets was rejected due to "cracks" which appeared on the strip during the cutting of coils and were caused by sticking and welding of the metal during annealing. For the above reasons, the following possibilities of improving the production technology were investigated: a) application of decarburising preliminary annealing of steel in order to decrease its specific losses; b) in view of the large deformation of strip during annealing in coils - transfer to annealing in sheets; c) introduction of dressing operation for straightening strip with subsequent secondary

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## Thermal Treatment of Cold-rolled Dynamo Steel in Coils

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annealing of coils. The first two modifications required reconstruction of some equipment and as was shown by the investigation did not produce low-texture cold-rolled steel of sufficiently high magnetic properties; therefore, the third modification was tested in detail and adapted to conditions prevailing at the works. The technology of production of dynamo steel, investigating methods and the results obtained are described. As a result of this investigation, the following practice was finally adopted. Strip of dimensions 0.5 x 700 - 780 mm rolled on a continuous five-stand mill 1200 with summary reduction of 79% is annealed in a bell-type furnace fired with a mixture of coke-oven and blast-furnace gas. A protective atmosphere of the following approximate composition is used %: CO<sub>2</sub> - 1, CO 3.35, H 2.65, CH<sub>4</sub> 0.53, N<sub>2</sub> 92.46. The annealing temperature - 880-930 °C, soaking time - 12 hours. Cooling of the charge to 650 °C under the bell at a rate of 15 °C/hr. In order to straighten strip, it is dressed by rolling with a reduction of 2.5 - 3.5%. After dressing, strip is again annealed at 700 - 750 °C. During this annealing, no

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Thermal Treatment of Cold-rolled Dynamo Steel in Coils

deformation of strip takes place. The annealed strip is cut into sheets. The introduction of this practice of thermal treatment of cold-rolled dynamo steel (without the application of decarburising annealing) increased the yield of higher quality steels E12, E21 and E3 up to 70% at a silicon content within a range of 1.3-1.8%. Anisotropy of magnetic properties of the steel does not exceed 3.5%. It is stressed in the editorial note that an effort should be made to carry out the second annealing in sheets, i.e. after cutting of the strip. There are 7 figures, 4 tables and 11 references, 7 of which are Soviet, 3 German and 1 French.

ASSOCIATION: Magnitogorskiy metallurgicheskiy kombinat  
(Magnitogorsk Metallurgical Combine)

Card 3/3

DUBROV, N.F., kand.tekhn.nauk; MIRONOV, L.V., inzh.; KLOV, N.I., inzh.

Annealing cold-rolled electrical steel continuous action furnace.  
Stal' 20 no.6:543-547 Je '60. (MIRA 14:2)

1. Ural'skiy nauchno-issledovatel'skiy institut chernykh metallov  
i Magnitogorskiy metallurgicheskiy kombinat.  
(Annealing of metals)

S/196/61/000/011/005/042  
E194/E155

**AUTHORS:** Sheftel', N.I., Dubrov, N.F., Mironov, L.V., and  
Kolov, M.I.

**TITLE:** Coiled lightly-textured electrical steel of good  
magnetic properties

**PERIODICAL:** Referativnyy zhurnal, Elektrotehnika i energetika,  
no.11, 1961. 2, abstract 11B 6. (Vestn. elektroprom-  
sti, no.6, 1961, 69-73)

**TEXT:** Cold-rolled lightly-textured electrical steel has a  
number of advantages over hot-rolled. It can be produced not only  
in sheets but in coils, which ensures high uniformity of  
properties and allows the manufacturing processes to be mechanised  
and automated both in the actual production of the steel and in  
its application. The object of the work was to improve the  
properties of the coiled material. Particular attention was paid  
to reducing the specific losses whilst maintaining the required  
magnetic induction and plasticity. The specific losses may be  
reduced by increasing the content of Si and reducing that of C,  
by reducing the sheet thickness and by using cold-rolling and  
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Coiled lightly-textured electrical ... S/196/61/000/011/005/042  
E194/E155

heat-treatment conditions that promote grain growth. High-temperature annealing was specially studied because of possible reduction in grain size of sheet steel with an Si content of 2% during the  $\alpha$ - $\gamma$  phase conversion at a temperature of 950-1000 °C. Investigations were made on cold-rolled steel strip of 0.5 and 0.35 mm thickness containing 0.05-0.01% C. Part of the strip was decarburised by annealing in a gas-hood furnace. After rolling with various degrees of reduction the strips were annealed in transfer furnaces and batchwise in hood-type furnaces with hydrogen atmosphere and in vacuum. In both cases the highest grade of steel ( $\geq$  3100 (E 3100)) could be obtained only with a C content of less than 0.02%. In the transfer furnace the best magnetic properties were obtained by annealing below the phase-conversion temperature. With annealing in hood-type furnaces the specific losses are lower than with transfer furnaces; the best result is obtained by annealing at 1150 °C. The lowest losses are obtained with a reduction of 5-8% in the second rolling after intermediate annealing (this is the critical reduction for electrical sheet steel). By reducing the sheet thickness from 0.5 to 0.35 mm the

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Coiled lightly-textured electrical ... S/196/61/000/01 '005/042  
E194/E155

specific losses are reduced, particularly when the Si content  
is increased to 2.2-2.3%.  
2 literature references.

[Abstractor's note: Complete translation.]



Card 3/3



YERSHOVA, L.P., inzh.; KORSUNSKAYA, A.I., inzh.; Primali uchastiyas: KOLOV, M.I.;  
NEKHOROSHIKH, Yu. M.; MEZENTSEV, G.V.

Nonuniformity of magnetic properties in a stack of electrical steel  
sheets. Stal' 21 no.6:546-548 Je '61. (MIRA 14:5)

1. Magnitogorskiy metallurgicheskiy kombinat.  
(Sheet steel—Magnetic properties)

SHEFTEL', N.I., kand.tekhn.nauk; DUBROV, N.F., kand.tekhn.nauk; MIRONOV,  
L.V., inzh.; KOLOV, M.I., inzh.

Rolled low-texturized electric engineering steel with high  
magnetic properties. Vest. elektroprom. 32 no.6:69-73 Je  
'61. (MIRA 16:7)

(Steel--Magnetic properties)

MIRONOV, L.V., kand.tekhn.nauk; YERSHOVA, L.P., inzh.; DOROSHEK, S.I., inzh.;  
KOLOV, M.I., inzh.

Effect of carbon on the structure and properties of cold-rolled  
transformer steel. Metalloved. i term. obr. met. no.6:6-10 Je '62.

1. Ural'skiy nauchno-issledovatel'skiy institut chernykh metallov  
i Magnitogorskiy metallurgicheskiy kombinat.  
(Sheet steel—Magnetic properties)

KOLOV, M.I., inzh.; YERSHOVA, L.P., inzh.; SELIVANOV, N.M., kand.tekhn.nauk

Effect of grain size on the magnetic properties of cold-rolled electrical steel. Stal' 22 no.8:744-747 Ag '62. (MIRA 15:7)

1. Magnitogorskiy metallurgicheskiy kombinat.  
(Sheet steel--Magnetic properties)

SOKOLOV, V.A., inzh.; LEVINA, G.G., inzh.; Prinimali uchastiye: DUKHIN,  
I.S.; KOLOV, M.I.; SOSNOVSKAYA, Z.H.

Increasing the durability of steel rolls for strip mills.  
Stal' 22 no.9:821-823 S '62. (MIRA 15:11)

1. Magnitogorskiy metallurgicheskiy kombinat.  
(Rolls (Iron mills)) (Steel--Heat treatment)

YERSHOVA, L.P.; KOLOV, M.I.; TEREKHOVA, A.I.

Effect of metal oxidation on the properties of transformer steel.  
Stal' 23 no. 3:266-269 Mr '64. (MIRA 17:5)

1. Magnitogorskiy metallurgicheskiy kombinat.

GALYAN, V.S.; KHAYRUTDINOV, R.M.; KOLOV, M.I.

Effect of the degree of metal oxidation on properties of transformer steel. Izv. vys. ucheb. zav. Chern. met. 7 no.12:13-17  
1964 (MIRA 18:1)

1. Chelyabinskiy nauchno-issledovatel'skiy institut metallurgii.

I 44005-66 EWT(m)/EWP(t)/T/ETI/EWR(k) IJP(c) JD/HW

ACC NR: AP6029871

SOURCE CODE: UR/0413/66/000/015/0022/0022

INVENTOR: Voronov, F. D.; Filatov, A. D.; Gun, S. B.; Selivanov, N. M.; Nosov, V. D.; Savel'yev, G. V.; Goncharov, F. I.; Plotnikov, P. I.; Roshkov, S. A.; Kustobayev, G. G.; Polushkin, V. P.; Arkhipov, V. H.; Uziyenko, A. M.; Kolov, M. I.; Kozhevnikov, V. P.; Shapiro, B. S.; Kalugin, V. F.; Grudev, P. I.; Aksenov, B. N.; Khomyachkov, A. P.; Rudakov, Ye. A.; Kuzema, I. D.; Gomzhin, V. V.; Poydyshev, B. N.; Shternov, M. M.

ORG: none

TITLE: Method of making high-strength steel plates by pack rolling. Class 7, No. 184232

SOURCE: Izobret prom obraz tov zn, no. 15, 1966, 22

TOPIC TAGS: high strength steel, high strength steel plate, high strength steel sheet, steel plate rolling, steel sheet rolling

ABSTRACT: This Author Certificate introduces a method of pack rolling high-strength steel plates and sheets up to 10 mm thick and up to 3500 mm wide in a carbon steel envelope. The method includes cleaning, coating, making of the pack, heating, rolling and subsequent heat treatment. To ensure an accurate thickness of the plates

Card 1/2

UDC: 621.771.23



L 44005-66

ACC NR: AP6029871

or sheets regardless of their location in the pack, the thickness of the envelope must be at least 0.6 of the total initial thickness of the high-strength plates of the pack. [ND]

SUB CODE: 13/ SUBM DATE: 18Jun64/ ATD PRESS: 5070

Card 2/2 blg

KOLOV, S.N.

Some problems on sand evolution based on observations in Kyzyl-Kum  
and Kara Kum. Trudy SAGU no.63:53-68 '55. (MLRA 9:5)  
(Kyzyl-Kum--Sand) (Kara Kum--Sand)

15-57-5-5970

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 5,  
p 38 (USSR)

AUTHOR: Kolov, S. N.

TITLE: ~~The Provenance of~~ the Eolian Sands in Northwestern  
Turkmeniya (K voprosu ob istochnikakh obrazovaniya  
eolovykh peskov severo-zapadnoy Turkmenii)

PERIODICAL: Tr. Sredneaz. un-ta, 1956, Nr 82, pp 101-105.

ABSTRACT: The author criticizes the views of I. Walter (Val'ter)  
(The Laws of Desert Development in Present and Past  
Times, 1911) and of B. A. Fedorovich (Tr. In-ta geo-  
grafii AN SSSR, 1953, Nr 58) on the possible primary  
origin of all the eolian sands of the region by desert  
weathering of sedimentary and crystalline rocks exposed  
in the area where the eolian sands are now present. He  
opposes the view that a primary sorting of the eolian  
sands by stream action is necessary.

Card 1/1

L. D. Sh.

KOIOV, T.

Boat made of duralumin. Voen.znan. 32 no.10:14 0 '56.

(MLRA 10:2)

1. Zamestitel' predsedatelya respublikanskogo komiteta  
Dobrovol'nogo obshchestva sodeystviya armii, aviatsii i  
flotu Tatarskoy ASSR, Kazan'.

(Duralumin) (Boats and boating)