

BLINE, R

Infrared spectra of some ferroelectric compounds with short hydrogen bonds. R. Blinc and D. Hadzi (Inst. Boris Kidric, Ljubljana, Yugoslavia). *J. Mol. Phys.* 1, 381-405 (1958).—The spectra of KH_2PO_4 , $\text{NH}_4\text{H}_2\text{PO}_4$, NaH_2PO_4 , KH_2AsO_4 , $\text{NH}_4\text{H}_2\text{AsO}_4$, $\text{Ag}_3\text{H}_4\text{IO}_6$, and $(\text{NH}_4)_2\text{H}_4\text{IO}_6$ and of their deuterated analogs have been recorded at room temp. and some of them also at low temp. in the ferroelec. phase. The interpretation of the region 3000-1500 cm^{-1} , contg. several OH bands, has been made in terms of the tunneling of the protons between 2 min. of potential energy, of equal depth in the nonferroelec. phase and unsym. in the ferroelec. form. A quantum-mech. treatment of the vibrational problem of the latter type has been carried out; the agreement between theory and expt. is good.

Walter G. Rothschild

BLINC, R.

7
↓ The degree of association of fatty acids in the liquid state as derived from sound-velocity data and dipole moment determination. M. Blinc and R. Blinc (Chem. Inst. Boris Kidric, Ljubljana, Yugoslavia). *J. Polymer Sci.* 32, 508-8 (1958).—It is most probable, from calcd. values of dipole moments of fatty acids in the liquid state, that formic acid assoc. as linear-chain polymers in which only one H-bond exists between any two mols. The assocn. of HOAc is a mixt. of nonpolar dimer assocn. and polar chain assocn.
N. J. Petrella

4
JAS(WB)

R. Blinc

Distr: 4E3d

7
Problem of negative anharmonicity and the nature of the hydrogen bond in potassium hydrogen fluoride. R. Blinc (J. Stefan Inst., Ljubiana, Yugoslavia). *Nature* 183, 1010-17 (1958).—It is only in the case of KF·HF that all the exptl. evidence indicates that the proton is central in the H bond. This evidence is discussed and the view advanced that, except for the explanation of the divergence of the vibrational levels (which is regarded as hypothetical), the data are equally explicable as a limiting case of an oscillator having a double min. in the potential function. J. S. Cook

4
1

Out

BLINC, R.; PIRKMAJER, E.

Calculated bond lengths, bond orders, and π -electron distributions in naphthazarin. In English p. 117

LJUBLJANA, INSTITUT "JOZEF STEFAN." REPORTS Ljubljana, Yugoslavia Vol. 4
Oct. 1959

Monthly List of East European Accession (EEAI) IC, Vol. 8, no. 6, June 1959
uncl.

BLINC, R.; PAHOR, J.

Some thermodynamic functions of gaseous furan, thiophene, and pyrrol, calculated from spectroscopic data and molecular structure, In English
p. 123

LJUBLJANA, INSTITUT "JOZEF STEFAN." REPORTS Ljubljana, Yugoslavia
Vol. 4, Oct. 1959

Monthly List of East European Accessions, (EEAI) LC, Vol. 8, no. 6,
June 1959
Uncl.

BLINC, R.

19
 Proton magnetic resonance study in ammonium and silver chlorate peroxide. R. Blinc (J. Stefan Inst., Ljubljana, Yugoslavia). *J. Chem. Phys.* 31, 849-50 (1959).—A small change in line width of the proton magnetic resonance absorption spectrum of $\text{Ag}_2\text{H}_2\text{O}_7$ was observed at -40° . Two changes, one at -40 to -60° and the other at -110 to -125° , were observed in $(\text{NH}_4)_2\text{H}_2\text{O}_7$. The presence of these line width transitions indicates that the protons in the H bonds have 2 equi. positions. The antiferroelec. transitions and the isotope effects may be explained by the same mechanism as those in $\text{K}_2\text{H}_2\text{P}_2\text{O}_7$ and $\text{NH}_4\text{H}_2\text{P}_2\text{O}_7$.
 Henry Laidler

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1-2/10-10

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amb

BLINC, R.

Distr: 4E2c/4E3b/4E3d

✓ Nuclear magnetic resonance (NMR) and infrared study
 of $(NH_4)_2SO_4$ and $(NH_4)_2BeF_6$. R. Blinc and I. Levstek
 (Inst. J. Stefan, Ljubljana, Yugoslavia). *Phys. and Chem.
 Solids* 12, 295-7 (1960). — The NMR and infrared spectra of
 $(NH_4)_2SO_4$ and $(NH_4)_2BeF_6$ have been investigated both in
 the nonferroelec. and in the ferroelec. phases. From the
 measured 2nd moments it was found that at room temp. the
 reorientations of the NH_4^+ ions do not remain correlated
 with any specific axis of rotation. In $(NH_4)_2SO_4$ a line-
 width transition was found below -110° . Below the
 transition 2 components were resolved, which are interpreted
 as being due to "frozen-in" and rotating NH_4 ions, resp.
 Above -180° , no line-width transition was found in $(NH_4)_2$ -
 BeF_6 . This shows that the H bonds N-H...F are weak.
 In the infrared spectra of both compds. bands involving the
 torsional modes of NH_4^+ ions were found. Thus, the possi-
 bility of free rotation at room temp. must be excluded. The
 splitting of the $\nu_2(NH_4^+)$, $\nu_2(SO_4)$, and $\nu_2(BeF_6)$ bands below
 the Curie point indicates the deformation of these ions in the
 ferroelec. phase. I. M. Hong

CPK

6
 1-BW(BW)
 1-MJC(JD)
 2-JAS(AS)(AS)
 3

BILINC, A

5

19

/ The isotopic effects in the ferroelectric behavior of crystals with short hydrogen bonds! B. Bilinc (J. Stefan Inst., Ljubljana, Yugoslavia). *Phys. and Chem. Solids* 13; 204-11(1960).—The infrared and nuclear magnetic resonance spectra of KH_2PO_4 , KH_2AsO_4 , $\text{NH}_4\text{H}_2\text{PO}_4$, $\text{NH}_4\text{H}_2\text{AsO}_4$, AgH_2IO_4 , $(\text{NH}_4)_2\text{H}_2\text{IO}_4$, NaH_2PO_4 , CaHPO_4 , BaHPO_4 , and deuteriated analogs were investigated. The results indicate that the protons involved in H bonding are tunnelling. The ferroelectric transition occurs owing to deformation of H^+ distribution caused by electrostatic interaction. A quantum treatment of this effect is presented.

J. M. Hpaig

H

BLINC K.

✓ Infrared and proton magnetic resonance spectra of solid substances containing very short hydrogen bonds. *Blinc and D. Hadzi (Univ., Ljubljana, Yugoslavia). Spectrochim. Acta 16, 853-82(1960)(in English).*—From the data obtained, the compds. could be divided into 2 groups. In the 1st group, the compds. are RH_2AsO_4 , $R = K, NH_4$; RH_2PO_4 , $R = K, NH_4, Na$; $RHPO_4$, $R = Ca, Ba$; RH_2IO_4 , $R = Ag, NH_4$; K and NH_4 H phthalates; K H bis-*p*-nitrobenzoate. The infrared spectra show 2 OH-stretching bands in the region $1900-3000\text{ cm}^{-1}$, sepd. by $300-500\text{ cm}^{-1}$. The magnetic resonance signals are strong and narrow (3-5 gauss) at room temp. and slightly broader at -180° . The compds. in the 2nd group are Ni dimethylglyoxime; $Na_2CO_3 \cdot NaHCO_3 \cdot 2H_2O$; K H bisphenylacetate, dibenzoate, and maleate. There is no OH-stretching band in the region above 1800 cm^{-1} . The resonance signals are narrow and weak at room temp., they change little at low temp. The results can be interpreted with a proton potential function having 2 min. and sepd. by a barrier of different size in the 2 groups. In the 1st group, the barrier is low enough so that proton tunnelling occurs and the vibrational levels split. The potential function also causes a short correlation time in the proton resonance. It is temp. independent at low temp. when the proton tunnels at the lowest vibrational level. In the 2nd group the potential barrier approaches zero and the H bond is nearly of the sym. type. The OH-stretching mode has a low frequency and its characteristic property is lost by interaction with other vibrational modes. In the limit, there is no tunnelling, the relaxation time becomes long, the signal is weak, and satn. occurs even at low radio-frequency power. The extreme case is approached by the maleate.

George M. Murphy

67K

BLINC, R.; MARICIC, Sinisa; PINTAR, M.

A proton magnetic resonance and infrared study of colemanite and inyoite. Croat chem acta 32 no.2:67-73 '60. (EEAI 10:4)

1. Department of Structural and Inorganic Chemistry, Institute "Ruder Boskovic," Zagreb, and Physics Department, Institute "Jozef Stefan," Ljubljana, Yugoslavia. 2. Redakcioni odbor (Committee of Publication), Croatica Chemica Acta, member of the Committee (for Maricic)

(Colemanite) (Inyoite) (Protons)
(Magnetic resonance) (Infrared rays)

BLINC, Robert; HADZI, Dusan

Proton tunneling in hydrogen short bonds, and its influence
on the infrared spectra and proton magnetic resonance.
Glas Hem dr 25/26 no.3/4:169-170 '60/'61

1. Kemijski institut "Boris Kidric," Ljubljana.

BLINC, Robert; HADZI, Dusan

Electronic and infrared spectra of naphthazarin and its ethers.
Glas Hem dr 25/26 no.3/4:171-172 '60/'61

1. Kimijski institut "Boris Kidric", Ljubljana

19
✓ Nuclear magnetic resonance study in Rochelle salt.
R. Blinc and A. Prelesnik (I. Stefan Inst., Ljubljana, Yugo-
slavia). *J. Chem. Phys.* 32, 887-8(1960).—The angular
dependence of the proton magnetic resonance absorption of a
Rochelle salt single crystal was measured. The exptl. 2nd
moments were compared with the theoretical curves.
Lösche's model (CA 53, 15181h) reproduced the qual. form
of the angular dependence. The occurrence of transitions
in the proton magnetic absorption line widths at 24° and
below -20° demonstrated that the assumption of protonic
motion, upon which the dynamic theories of ferroelectricity
in Rochelle salt are based, is essentially correct.

Henry Leidesner, Jr.

24.6810

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S/081/62/000/013/007/054
B158/B144AUTHORS: Blinc, R., Detoni, S., Pintar, M., Poberaj, S.TITLE: Electron paramagnetic resonance in γ -irradiated
ferroelectric $\text{LiH}_3(\text{SeO}_3)_2$ PERIODICAL: Referativnyy zhurnal. Khimiya, no. 13, 1962, 73, abstract
13B466 (Croat. chem. acta, v. 33, no. 2, 1961, 89-92) ✓

TEXT: Single crystals of $\text{LiH}_3(\text{SeO}_3)_2$, grown from aqueous solutions, were irradiated by γ -rays of Co^{60} (dose of 10^6 r) at room temperature. The epr spectra were examined at various orientations of the samples in a magnetic field H. The spectra obtained where the main axis of the single crystal c || H are identical at deflection angles φ and $(180^\circ - \varphi)$, where φ is the azimuthal angle between directions of H and the other axis. Spectra for the case where a || H agree for all values of φ . Where b || H, strong anisotropy of the spectrum occurs. Keeping the samples for 2 months does not alter the form of the spectra. [Abstracter's note: Complete translation.]
Card 1/1

BLINCHEVSKIY, F.

Instructional working operation and complex. Prof.-tekh.obr. 21
no.3:18-21 Mr '64. (MIRA 17:4)

BLINCHEVSKIY, F. L.

PROTOPOV, Aleksey Fedorovich; YESIPOV, B.P., professor, retsenzent, kandidat pedagogicheskikh nauk; SKATKIN, M.N., retsenzent, kandidat pedagogicheskikh nauk; BULATOV, N.P., kandidat pedagogicheskikh nauk, retsenzent; BLINCHEVSKIY, F.L., inzhener metodist, retsenzent; MOROZOVA, G.F., redaktor; VASIL'YEV, L.V., redaktor; SADE, L.S., redaktor; OSTRIROV, N.S. tekhnicheskii redaktor

[Pedagogical method in trade schools] Pedagogicheskii protsess v remeslennykh uchilishchakh. Moskva, Vses. uchebno-pedagog izd-vo Trudrezervizdat, 1955. 206 p. (MLRA 8:10)

1. Chlen-korrespondent APN-BSFSR (for Yepisov & Skatkin)
(Technical education)

OBSHADKO, Boris Iosifovich; BLINCHEVSKIY, F.L., redaktor; SIDEL'NIKOVA, E.I.,
redaktor; EGGERT, A.V., tekhnicheskii redaktor.

[Methods of teaching turning] Metodika prepodavania tokarnogo dela.
Izd. 2-e, perer. i dop. Moskva, Vses. uchebno-pedagog. izd-vo, Trudrezerv-
izdat, 1956. 261 p. (Turning) (MLRA 9:5)

Blinchevskiy Filipp L'vovich

PHASE I BOOK EXPLOITATION 553

Blinchevskiy, Filipp L'vovich, and Zelenko, Genrikh Iosifovich
Professional'no-tekhnicheskoye obrazovaniye rabochikh v
SSSR (Vocational and Technical Education of Workers in the
U.S.S.R.) Moscow, Trudrezervizdat, 1957. 158 p. 10,000
copies printed.

Ed.: Bregman, M.A.; Tech. Ed.: Ostrirov, N.S.

PURPOSE: This book is dedicated to "the 40th anniversary of the
Great October Socialist Revolution" and lauds the social and
economic achievements of the USSR since 1917.

COVERAGE: The book outlines the history of the vocational
training and accomplishments of workers under the Soviet
regime. It describes the industrial progress achieved
during various periods between 1917 and 1955.

Card 1/3

Vocational and Technical Education of Workers (Cont.) 553

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Vocational training of workers during the early five-year plans (1929-1940)	41
Establishment of a system of state labor reserves. Vocational training of workers during the years of World War II (1940-1945)	62

Card 2/3

Vocational and Technical Education of Workers (Cont.)	553
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AVAILABLE: Library of Congress

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Card 3/3

BLINCHEVSKIY, F.L.

BLINCHEVSKIY, F.; ZELENIKO, G.

Training personnel and the growth of the cultural and technical
standard of workers. Sots. trud no.12:20-32 D '57. (MIRA 11:1)
(Labor and laboring classes--Education)

ZELENIKO, Genrikh Iosifovich; BLINCHEVSKIY, Fridel' L'vovich; ZHIDELEV,
M.A., nauchnyy red.; KOLBANOVSKIY, V.V., red.; SAVCHENKO,
Ye.V., tekhn.red.

[Soviet technical vocational education at a new stage]

Sovetskoe professional'no-tekhnicheskoe obrazovanie na novom
etape. Moskva, Izd-vo "Znanie," 1959. 47 p. (Vsesoiuznoe
obshchestvo po rasprostraneniю politicheskikh i nauchnykh
znaniy. Ser.2., Filofofiia, no.32) (MIRA 12:11)

(Vocational education)

BLINCHEVSKIY, F.

Some premises of the present-day system of industrial training.
Prof.-tekh. obr. 19 no.9:7-11 S '62. (MIRA 15:10)

(Vocational education)

TOMASHOV, N.D.; TYUKINA, M.N.; BLINCHEVSKIY, G.K.

Apparatus for the relative estimation of the elasticity of anodic
films of aluminum. Trudy Inst.Fiz.Khim., Akad. Nauk S.S.S.R. 3,
Issledovaniya Korrozii Metal. No.2, 13-16 '51. (MLRA 5:2)
(CA 47 no.17:8559 '53)

TOMASHOV, N. D., TYUKIN, M. N., BLINCHEVSKIY, G. K.

Aluminum - Corrosion

Device for relative evaluation of the elasticity of anodic coatings on aluminum.
Trudy Inst.fiz.khim. AN SSSR, No. 3, 1951.

9. Monthly List of Russian Accessions, Library of Congress, May 1951² Uncl.

BLINCHEVSKIY, G.K.; NIKIFOROV, V.P.; VRUTSEVICH, Z.A.

Clamps for testing standard flat specimens on the RM-500 machine.
Zav.lab. 22 no.1:123 '56. (MIRA 9:5)

1. Institut fizicheskoy khimii Akademii nauk SSSR.
(Testing machines)

AUTHORS: Tomashov, N.D., Chernov, G.P., Al'tovskiy, R.M., 32-3-17/56
Blinchevskiy, G.K.

TITLE: Development of a Method of Metal Dressing by a Solution for the Purpose of Studying the Effects of Passivity
(Razvitiye metoda zachistki poverkhnosti metallov pod rastvorom dlya issledovaniya yavleniy passivnosti)

PERIODICAL: Zavodskaya Laboratoriya, 1958, Vol. 24, Nr 3, pp. 299-303 (USSR)

ABSTRACT: The method mentioned in the title was developed by G.B. Klark and G.V. Akimov [Ref. 1]. The system was improved in that metal-dressing is carried out on the entire part of the surface that is in contact with the electrolyte; the emery stone has an automatically controlled and constant velocity; the test vessel is thermally controlled, and experiments can be carried out in an atmosphere of different gases. A schematical drawing with an exact description is given. The influences of the composition of stainless steel on the velocity of the formation of the protective coating as well as that exercised by the composition of the solution upon the latter in tungsten, zirconium, and titanium was investigated. As

Card 1/2

Development of a Method of Metal Dressing by a Solution
for the Purpose of Studying the Effects of Passivity

32-3-17/52

may be seen from the results of investigation and from the diagrams given, the influence exercised by the composition of steel is of decisive importance. Among other things it was found that an increase of the concentration of chlorine ions in the solution renders re-establishment of the passivation of zirconium and titanium more difficult, whereas that of tungsten is rendered somewhat more easy. The re-passivation of titanium in a $3n \text{ HCl} + 0.2n \text{ NaJ}$ solution is independent of the influence exercised by the oxygen in the air, as it promotes the formation of the J_3^- -complex ions. The method described makes it possible to carry out other investigations of this kind as e. g. that of the influence exercised by protective coatings upon the polarization properties of metals. There are 4 figures, and 2 references, 2 of which are Slavic.

ASSOCIATION: Institute of Physical Chemistry AS USSR (Institut fizicheskoy khimii Akademii nauk SSSR)

AVAILABLE: Library of Congress

Card 2/2 1. Metals-Passivity-Effects. 2. Metals-Coating-Methods

S/081/60/000/020/004/014
A006/A001

Translation from: Referativnyy zhurnal, Khimiya, 1960, No. 20, p. 294, # 81433

AUTHORS: Tomashov, N.D., Modestova, V.N., Blinchevskiy, G.K.

TITLE: Methods of Investigating Corrosion and Electrochemical Behavior of Metals Under Stress

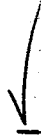
PERIODICAL: Tr. In-ta fiz. khimii, AN SSSR, 1959, No. 7, pp. 64-77

TEXT: The design of a machine was developed for corrosion tests under stress with a time-constant load, permitting the operation at higher temperatures and measuring simultaneously the potential of the specimen. The corrosion behavior under stress of MA9 alloy was tested (low-alloy magnesium base alloy) in 0.001 n. NaCl solution and in a solution containing 35 g/l NaCl + 20 g/l K_2CrO_4 . It is shown that in 0.001 n. NaCl solution, when stress is absent, the corrosion defects appear in the form of multiple rounded micropittings. In the presence of stress, the micropittings transform into slits or intercrystallite cracks. In a 35 g/l

Card 1/2

S/081/60/000/020/004/014
A006/A001

Methods of Investigating Corrosion and Electrochemical Behavior of Metals Under Stress

NaCl + 20 g/l K_2CrO_4 solution, coarse spotty corrosion is observed. The stress does practically not affect the shape of pittings. 

From the authors' summary

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

BLINCHEVSKIY, I.M.

BLINCHEVSKIY, I.M., insh.

Pneumatic drawn-in chucks used in turret lathes. Mashinostroitel'
no.9:29 S '57. (MLRA 10:9)
(Machine tools--Pneumatic driving) (Chucks)

BLINCHEVSKIY, I.

Bank control over the delivery of goods by trade organizations.
Den. 1 kred. 21 no.9:31-35 S '63.

(MIRA 16:10)

BLINCHEVSKIY, I.M., inzh.

Scale formation mechanism in bubble boiling. Izv. vys. ucheb.
zav.; energ. 6 no.11:94-99 N'63. (MIRA 17:2)

1. Kaliningradskiy tekhnicheskoy institut rybnoy promyshlennosti
i khozyaystva. Predstavlena kafedroy kholodil'nykh i
kompessornykh mashin i ustanovok.

L 5190-66

ACCESSION NR: AP5020935

UR/0170/65/009/002/0143/0147
586.423.1

AUTHOR: Blinchevskiy, I. M.

24
B

TITLE: The scale formation mechanism in bubble boiling

SOURCE: Inzhenerno-fizicheskiy zhurnal, v. 9, no.2, 1965, 143-147

TOPIC TAGS: water vapor, sea water, surface scaling, steam boiler, boiling, crystal

ABSTRACT: The formation of vapor bubbles on the surface of boiling is accompanied by the following factors which have not been taken into account in investigations of this field: a) an increase of suspended particle concentration in the generation of the vapor bubble, b) the existence of more favorable conditions for the transition of salt ions to the crystal lattices of the scale particles at the vapor-water-wall interface, and c) better conditions for the supply of the "fresh" solution to the growing scale crystals due to agitation by the bubbles of the layer adjacent to the wall. The present author investigates a solid particle at the surface of the growing vapor bubble. An ion on the surface of the vapor bubble is also studied. It is assumed that the effect of vapor generation on the intensity of scale
Card 1/2

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ACCESSION NR: AP5020935

growth is determined by the influence of all the factors considered. In order to confirm the influence of factor c), the author conducted an experiment in which sea water was heated in an annular gap between the tube of the working component and a detachable bushing. It was found that scale formation was intense on the inside surface of the bushing despite the fact that there was no heat generated by the bushing. Orig. art. has: 2 figures, 2 formulas, and 1 table.

ASSOCIATION: None

SUBMITTED: 01Oct64

ENCL: 00

SUB CODE: GC, IE

NO REF SOV: 008

OTHER: 002

Card 2/2 *med*

BLINCHEVSKIY, I.M., inzh.

Effect of surface roughness on the formation of salt deposits.

Teploenergetika 12 no.10:31-32 3 '65.

(MIRA 18:10)

1. Kaliningradskiy tekhnologicheskiy institut rybnoy promyshlennosti.

LEVIN, G.M., kand. tekhn. nauk; BLINCHEVSKIY, I.M., inzh.

Scale formation in the evaporation of sea water. Izv. vys. ucheb. zav.;
energ. 8 no. 12:58-63 D '65. (MIRA 19:1)

1. Kaliningradskiy tekhnicheskiy institut rybnoy promyshlennosti
i khozyaystva. Submitted July 18, 1964.

BLINCHEVSKIY, M., agronom-ovoshchevod

Protecting *Allium fistulosum*. Zashch. rast. ot vred. i bol. 10 no.6:
37 '65. (MIRA 18:7)

BLINCHEVSKIY, M.Z.; FILATOV, N.A., zasl. agronom RSFSR, retsenzent;
EDEL'SHTEYN, V.I., akademik, red.[deceased]; SOKOLOVA, G.,
red.

[Manual on the growing of vegetables under glass] Spravochnik po ovoshchevodstvu zashchishchennogo grunta. Moskva, Mosk. rabochii, 1965. 243 p. (MIRA 18:12)

BLINCHEVSKIY, V.S. (Moskva)

Use of S.A. Chaplygin's method in solving a boundary value problem
for a system of ordinary differential equations. Zhur. vych. mat i
mat. fis. 3 no.6:1117-1121 3-D '63. (MIRA 7:1)

ACC NR: AP7008917

SOURCE CODE: UR/0140/66/000/004/0009/0012

AUTHOR: Blinchevskiy, V. S. (Moscow)

ORG: none

TITLE: Solution of the cauchy problem for quasilinear first-order partial differential equations

SOURCE: IVUZ. Matematika, no. 4, 1966, 9-12

TOPIC TAGS: Cauchy problem, first order differential equation, partial differential equation

SUB CODE: 12

ABSTRACT: The conditions are given for the solution of the global Cauchy problem for a first-order quasilinear equation. A sequence of Chaplygin functions, uniformly converging to the solution, is constructed on the upper and lower Chaplygin functions of the zero approximation. The validity of the statement of the problem and the existence of the zero Chaplygin approximations is shown. The following lemma is proved: The inequality $\varphi(x) \leq \psi(x)$ is valid for the

Chaplygin functions $\varphi(x)$ and $\psi(x)$ in the region G^n . Orig. art. has: 3

formulas. JPRS: 38,417

Card 1/1

UDC: 517.945

16(1)

AUTHOR: Blinchevskiy, V.S.

SOV/42-14-1-6/27

TITLE: Conditions for the Absence of Uniform and Asymptotic Stability
(Usloviya otsutstviya ravnomernoy i asimptoticheskoy ustoychivosti)

PERIODICAL: Uspekhi matematicheskikh nauk, 1959, Vol 14, Nr 1, pp 141-146 (USSR)

ABSTRACT: Given the system

$$(1) \quad \frac{dx_i}{dt} = X_i(t, x_1, \dots, x_n)$$

with right sides continuously differentiable in the cylinder $I(h)$:

$\sum_{s=1}^n x_s^2 \leq h^2$, $h > 0$. Let $G(V)$ denote the set of those points of $I(\varepsilon)$ in which $V(t, x_1, \dots, x_n) > 0$.

Theorem: The trivial solution of (1) is not uniformly stable then and only then if there exists a function $V(t, x_1, \dots, x_n)$ continuously differentiable in $I(\varepsilon)$, $\varepsilon < h$, bounded in the domain $G(V)$, where the V ' formed with the aid of (1) is positively definite, and if here $G(V) \cap I(\delta) \neq \emptyset$ for no $\delta > 0$.

Card 1/2

Conditions for the Absence of Uniform and Asymptotic Stability SOV/42-14-1-6/27

Two further similar theorems relate to the absence of asymptotic and uniformly asymptotic stability.

There are 4 references, 3 of which are Soviet, and 1 Czech-Slovakian.

SUBMITTED: November 16, 1957

Card: 2/2

BLINCHEVSKIY, V.S. (Moskva)

Existence of a periodic solution in one autonomous system of n -
differential equations. Mat.sbor. 50 no.1:117-126 Ja '60.

(MIRA 13:6)

(Differential equations)

BLINCHEVSKIY, V.S.

Determining the type of Chaplygin solutions to the Cauchy problem for a quasi-linear first-order partial differential equation. Mat.sbor. 63 no. 2:265-276 7 '64. (MIRA 17:5)

L 54910-65 EWT(d) Pg-4 IJP(c)

ACCESSION NO: A95045067

S. E. ... Matematika, Abs. 5B271

AUTHOR: Blanchevskiy, V. S.

TITLE: Solution of the Cauchy problem for quasilinear partial differential equations of first order

CITED SOURCE: Dokl. 3-y Sibirsk. konferentsii po matem. i mekhan., 1964. Tomsk, Tomskiy un-t, 1964, 83-85

TOPIC TAGS: differential equation, Cauchy problem, boundary problem

TRANSLATION: For the quasilinear equation

$$Au = \sum_{i=1}^n a_i(x_1, \dots, x_n, u) \frac{\partial u}{\partial x_i} + b(x_1, \dots, x_n, u) = 0$$

with smooth coefficients, conditions for solvability of the global Cauchy problem formulated under which it is possible to construct a sequence of solutions uniformly convergent to the solution

ENCL: 00

BLINCHEVSKIY, V.S.

Use of S.A. Chaplygin's method in simple and generalized Cauchy problems for a system of ordinary differential equations. Izv. AN SSSR. Ser. mat. 29 no.2:365-378 '65.

(MIRA 18:5)

BLINCHEVSKIY, V.S.

Construction of a zero approximation in solving the Cauchy problem for a system of ordinary differential equations by S.A.Chaplygin's method. Dif. urav. 1 no.11:1544-1547 N '65.
(MIRA 18:12)

1. Moskovskiy tekhnologicheskii institut pishchevoy promyshlennosti. Submitted November 16, 1964.

BLINCHEVSKIY, YA.

Textile Industry and Fabrics

Method of taking inventory of unfinished production in weaving shops. Bukhg. uchet, No. 1, 1952

Monthly List of Russian Accessions, Library of Congress, March 1952. Unclassified.

BLINCHEVSKIY, Ya.; YELISEYEV, A.

Collecting and processing blood for industrial purposes on
a mechanized production line. Mias. ind. SSSR 32 no.4:23-24
'61. (MIRA 14:9)

1. Rostovskiy-na-Donu myasokombinat.
(Rostov-on-Don--Packing houses--Equipment and supplies)

BLINCHIKOV, I.; SOKOLOV, V.

Financial control of a commercial enterprise. Sov. torg 33
no.10:22-23 0 '59. (MIRA 13:1)
(Moscow--Food industry)

BLINCHIKOV, V.A. (Arkhangel'sk)

Experiment on compounding sulfur and iron. Khim. v shkole 11
no.5:52-53 S-0 '56. (MLRA 9:11)
(Sulfur) (Iron)

BLINCHIKOV, V.A.

USSR/General Problems.

A-

Abs Jour : Ref Zhur - Khimiya, No 10, 1957, 33425

Author : Blinchikov, V.A.

Inst :

Title : An Apparatus for the Preparation of a Regular Acetylene Current.

Orig Pub : Khimiya v Shkole, 1957, No 1, 61-63.

Abstract : The apparatus and instructions for carrying out the demonstration experiment, is described.

Card 1/1

BLINCHIKOV, V.A. (Arkhangel'sk)

Thermal effect during reaction of iron with copper sulfate
solution. Khim. v shkole 13 no.5:54-55 S-0 '58. (MIRA 11:9)
(Iron) (Copper sulfate)

BLINCHIKOV, V.A., uchitel'

Detection and determination of the type of hardness of water.
Khim.v shkole 14 no.4:41-44 J1-Ag '59. (MIRA 12:11)

1. Srednaya shkola No.21 g.Arkhangel'ska.
(Water--Analysis) (Chemistry--Experiments)

BLINDER, A., KOZHURIN, I., inzh.(g.Ivantseyevka)

Knit goods workers take up the baton. Sov.profsoiuzy 7 no.9:
26-27 My '59. (MIRA 12:8)

1. Redaktor mnogotirashnoy gazety "Trikotazhnitsa."
(Ivantseyevka--Knit goods industry)

LANGOVOY, N.I., red.; VLASOV, V.A., red.; BLINDER, D.I., red.

[Textbook on children's diseases for students in medical
schools] Uchebnik detskikh boleznei dlia studentov lechfaka.
Sverdlovsk, Medgiz, 1945. 616 p. (MIRA 13:8)
(CHILDREN--DISEASES)

BLINDER G.D.

"Sub-grafting of Tissues as a Prophylactic Method to Prevent Radiation Injuries and Inflammatory Processes Complicating the Course of Cancer during the Period of the Radiation Therapy" p. 267, in the book Experience in the Use of Radioactive Isotopes in Medicine R. Ye. KAVETSKIY and I.T. SHEVCHENKO, publishing House of the UKRAINIAN SSR, KIEV 1955, represents medical transactions of conference held in KIEV from 18-20 January 1954.

So: 1100235

PAKHOMOV, A.; BLINDER, I.; ZHIVAYEV, V. (Tashkent)

The further development of intercollective farm organizations. Vop.
ekon. no.1:141-153 Ja '61. (MIRA 13:12)
(Collective farms--Interfarm cooperation)

UL'MASOV, A.U., kand. ekon. nauk; UL'MASBAYEV, Sh.N., doktor ekon. nauk; DZHAMALOV, O.B., doktor ekon. nauk; BLINDER, I.B., kand. ekon. nauk; KHODZHAYEV, S.M., kand.ekon. nauk; RASULEV, M., kand. ekon. nauk; SABIROV, Kh.R., kand.ekon. nauk; SAFAYEV, A.S., kand. ekon. nauk; ABDULLAYEV, M.A., kand. ist. nauk; ABDURAIMOV, M.A., kand. ist. nauk, red.; AMINOV, A.M., doktor ekon. nauk, red.; MIL'MAN, Z.A., red.; GOR'KOVAYA, Z.P., tekhn. red.

[History of the national economy of Uzbekistan]Istoriia narodno-go khoziaistva Uzbekistana. Tashkent, Izd-vo Akad. nauk Uzbekskoi SSR. Vol.1. 1962. 389 p. (MIRA 16:1)

1. Akademiya nauk Uzbekskoy SSR, Tashkend. Institut ekonomiki. (Uzbekistan—Economic conditions)

BLINDER, I.D., insh.; KONAKOVA, L.P., insh.

Intercommunication system amplifiers in DSP control panels. Avtom.
telem. i svyaz' 3 no.11:21-23 N '59 (MIRA 13:3)

1. Konstruktorskoye byuro Glavnogo upravleniya signalizatsii i svyazi.
(Transistor amplifiers)

BLINDER, I.D.; BARABASH, B.V.

Transistorized amplifier for train radio systems. Avtom.,
telem. i sviaz' 8 no.5:9-13 My '64. (MIRA 17:10)

1. Glavnyy konstruktor otdela konstruktorskogo byuro Glavnogo upravleniya signalizatsii i svyazi Ministerstva putey soobshcheniya (for Blinder). 2. Vedushchiy konstruktor konstruktorskogo byuro Glavnogo upravleniya signalizatsii i svyazi Ministerstva putey soobshcheniya (for Barabash).

BLINDER, I.D.; BARABASH, B.V.

Transistorized amplifier for announcement systems on trains.
Avtom., telem. i sviaz' 8 no.7:11-13 Ji '64. (MIRA 17:12)

1. Glavnyy konstruktor otdela konstruktorskogo byuro Glavnogo upravleniya signalizatsii i svyazi Ministerstva putay soobshcheniya (for Blinder). 2. Vedushchiy konstruktor otdela konstruktorskogo byuro Glavnogo upravleniya signalizatsii i svyazi Ministerstva putay soobshcheniya (for Barabash).

GRIGOR'YEV, G.; KHLISTUN, B.; BASHCHUK, S.; DANKE, V.; GUBIN, A.; BLINDER, L.

What should be the standard design for keramzit plants. Stroi.mat. 10
no.8:32-33 Ag '64. (MIRA 17:12)

1. Glavnyy inzhener Ul'yanovskogo kombinata stroitel'nykh materialov, Ul'yanovsk (for Grigor'yev). 2. Direktor zavoda keramzitovogo graviya, Khabarovsk (for Bashchuk). 3. Glavnyy inzhener zavoda krupnpanel'nogo domostroyeniya, Saratov (for Danke). 4. Glavnyy inzhener kombinata asbestotsementnykh konstruktsiy, Chimkent (for Gubin). 5. Nachal'nik Saranskogo domostroitel'nogo kombinata, Saransk (for Blinder).

I 15288-66 EWT(d)/EWP(1) IJP(c) BB/GK
ACC NR AP5028958 SOURCE CODE: UR/0119/64/000/009/0008/0010

AUTHOR: Blinder, M. I. (Engineer)

ORG: none

166, 4/1
TITLE: Storage and delay logical elements

34
B

SOURCE: Priborostroyeniye, no. 9, 1964, 8-10

TOPIC TAGS: logic element, storage, delay circuit

ABSTRACT: New logical elements (Author's Certificate no. 146776, Bull. izobr., 1962, no. 9) "Storage," "Turn-on delay," and "Turn-off delay" are described; the delay is claimed to be stable within $\pm 5\%$ with considerable variation of the supply voltage and temperature. Instead of the conventional use of a stabilized supply-voltage source, the storage trigger is provided with a feedback that has an "after-effect." Such a transistorized trigger comprises 3 inverters, 2 OR-gates, a storing capacitor, and an emitter follower. On a short dip or interruption of the supply voltage, the storage element retains information; on loss of supply voltage, the element returns to its initial position. Both delay elements are represented by a

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UDC: 681.142.67:621.52
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ACC NR: AP5028958

transistorized delayed relay based on a single-stable-position trigger. The latter operates from an input signal and then returns despite the persistence of the input signal. These experimentally verified datae are claimed for the delay elements: load current, 8 ma; delay, up to 10 sec; a delay variation of $\pm 5\%$ or less with a supply-voltage variation of $\pm 25\%$ and temperature within 0--80C. Orig. art. has: 5 figures and 5 formulas.

SUB CODE: 09 / SUBM DATE: none

Card 2/2 *m.j.r.*

MITROFANOV, V; BLINDER, Ye.N., redaktor; NATAPOV, M.I., tekhnicheskii redaktor. ~~XXXXXXXXXX~~

[Inspection and auditing of industrial cooperatives] Revisiia organizatsii i predpriatii promyslovoi kooperatsii. Moskva, Vses. kooperativnoe izd-vo, 1954. 258 p. (MLRA 8:12)
(Cooperative societies--Accounting)

VORONTSOV, Sergey Mikhaylovich; BLINDER, Ye.N., redaktor; LOMILINA, L.N.
tekhnicheskii redaktor.

[Financial planning in industrial cooperatives] Finansovoe planirovanie v promyslovoi kooperatsii. 3-e izd. Moskva, Vses. kooperativnoe izd-vo, 1955. 177 p. (MLRA 8:11)
(Finance) (Cooperative societies)

BLINDER, YE. N.

YERMAKOVA, Anna Mikhaylovna; DEMINA, Mariya Leonidovna; BLINDER, Ye. N.,
redaktor; SUKHODOLOV, S. T., tekhnicheskiy redaktor

[Planning labor and wages in cooperative trade artels] Planirovanie
truda i zarabotnoi platy v arteliakh promyslovci kooperatsii. No-
stva, Vses. koop. izd-vo, 1956. 90 p. (MIRA 10:4)
(Wages) (Industrial management)

BLINDER, Ye. N.

MOROZOV, Nikolay Aleksandrovich; BLINDER, Ye. N., red.; TSIRUL'NITSKIY, N. P.,
tekhn. red.

[Automatization of control operations in woodworking] Avtomatizatsiia
kontrol'nykh operatsii v derevoobrabotke. Moskva, Vses. koop. izd-vo,
1957. (MIRA 11:1)

(Woodwork)

(Automatic control)

TSETLIH, Boris Viktorovich,; KAPLANOVICH, Semen Lipovich,; BLINDER, Ye. N., red.;
TSIRUL'NITSKIY, N.F., tekhn. red.

[Safety measures in the operation of industrial enterprises; a
practical manual] Okhraha truda pri ekspluatatsii promyshlemykh
predpriatii; prakticheskoe rukovodstvo. Moskva, Vses. koop. izd-vo,
1958. 345 p. (MIRA 11:12)

(Industrial safety)

KOLYASHINSKIY, Stanislav Mikhaylovich; BLINDER, Ye.N., red.;
NATAPOV, M.I., tekhn. red.

[Accounting in producers' cooperatives] Bukhgalterskii uchet v
promyslovoi kooperatsii. Moskva, KOIZ, 1955. 327 p.
(MIRA 16:7)
(Cooperative societies--Accounting)

BLINDERMAN, V.

Radio electronics in industry. Prof. -tekhn. obr. 13 no.8:
19-22 Ag '56.

(MLRA 9:10)

(Electronics)

BLINDERMAN, V., inzhener, laureat Stalinskoy premii.

Automatic control of production processes. Radio no. 11:28-30, 35
N '57. (MIRA 10:10)

(Automatic control)

BLINDIN, Y. P.

BLINDIN, V.P.

Solubility diagram of the ternary system: CuCl_2 - LiCl - H_2O and
 CuCl_2 - TlCl_4 - H_2O . Zhur. neorg. khim. 1 no.12:2828-2830 D '56.
(MLRA 10:6)

1. Rostovskiy na Donu institut sel'skokhozyaystvennogo mashinostro-
yeniya.

(Solubility) : (Systems (Chemistry))

BLINDMAN, R.S.; OLEVSKAYA, L.A.

Diagnostic significance of the sero-agglutination reaction
at low titers in obliterated forms of dysentery in infants.
Sov.med.19 no.9:43-46 S '55. (MLRA 8:12)

1. Iz kafedry fakul'tetskoy pediatrii (zav.-prof. V.G.Balaban)
Kiyevskogo ordena Trudovogo Krasnogo znameni meditsinskogo
instituta imeni akad. A.A.Bogomol'tsa (dir.-dotsent I.P.
Alekseyenko)

(DYSENTERY, in infant and child
diag. sero-agglutination test of low titer)
(HEMAGGLUTINATION, in various diseases
dysentery, diag.significance in inf.)

LEVIN, Ye.M., prof.; BLINDMAN, Ye.I.

Complement content of blood serum in various forms of syphilis.
Vrach. delo no.1:81-82 '59. (MIRA 12:4)

1. Kafedra kozhnykh i venericheskikh bolezney (sav. - prof. Ye.M. Levin) Vinnitskogo meditsinskogo instituta.
(SYPHILIS) (COMPLEMENTS (IMMUNITY))

LEVIN, Ye.M., prof.; BLINDMAN, Ye.I.

Result of treating psoriasis by a paravertebral-zonal novocaine
block. Sov.med. 23 no.10:130-132 O '59, (MIRA 13:2)

1. Iz kafedry kozhno-venericheskikh bolezney (zaveduyushchiy - prof.
Ye.M. Levin) Vinnitskogo meditsinskogo instituta.
(PSORIASIS ther.)
(AMBSTHESIA, CONDUCTION)

FRANCHE, M., Conf.; BRAUNER, E., dr.; ANDRONOVICI, Gh., dr.; MIHUL, V., dr.;
BLINDU, P., dr.; FELER, H., dr.; VINTU, G., dr.; BEJENARU, G., dr.;
RADULESCU, Alex., dr.; SABARESSA, L., dr.; HURMUZACHE, C., prof.;
TUDORANU, O., dr.; SEGAL, B., dr.; MARCULESCU, G., dr.; LUNGU, I.,
dr.; LUNGU, E., dr.; ZAHARESCU, T., dr.; BALMUS, P., conf.; BEJAN, V., dr.

Scarlatinal rheumatism. Med. int., Bucur. 9 no.1:67-70 Jan 57.

(RHEUMATIC FEVER, etiol. & pathogen.
scarlet fever, incidence & prev.)
(SCARLET FEVER, complications
rheum. fever. incidence & prev.)

BALDOVIN-AGAPI, Coralia, dr.; FRANCHE, Maria, prof.; BELOIU, Irina, dr.;
MICU, I., dr.; OVANESCU, A., dr.; ANDRONOVICI, G., dr.; BRAUNER, E.,
dr.; RADULESCU, A., dr.; DIMITRIU, St., dr.; DIMITRIU, A., dr.;
RUGINA, N., dr.; BLINDU, P., dr.

Receptivity to scarlet fever assessed by Dick's reaction with
fractional doses of purified toxin. Microbiologia (Bucur) 6
no. 1:69-76 Ja-F '62.

1. Institutul "Dr. I. Cantacuzino" si Spitalul "Izolarea" din
Iasi.

FRANCHE, M.; VITA, Ala; BESLEAGA, E.; APOSTOL, A.; BALTIEV, Ariadna; BATCU, A.
BLINDU, P.; BLUM, Miria [deceased]; BRAINER, E.; CUCIUREANU, Georgeta;
DUMITRIU, St.; FELLER, H.; MICO, I.; MIHUL, Valentina; OVANESCO, A.;
PAPP, E.; RADULESCO, Al.

Contributions concerning allergic complications of scarlatina
within the scope of data obtained by current research. Arch.
roum. path. exp. microbiol. 22 no.4:909-918 S-D'63

1. Travail de l'Institut Medico-Pharmaceutique, Jassy, et de
l'Hopital des Maladies Contagieuses de Jassy.

ROMANIA

MURESAN, I., Professor; BUCSA, N.; BLINDU, R.; MARIN, A.

Chief of Clinic: Professor I. Muresan.

Timisoara, Timisoara Medicala, No 1, Jan-Jun 63, pp 33-36

"Biliary Peritonitis."

YUGOSLAVIA / Chemical Technology, Chemical Products and Their
Application: Chemical Wood Products. Hydrolysis
Industry.

H-24

Abs Jour : Ref Zhur - Khimiya, No 5, 1959, No. 17071

Author : Blinc, M.; Strauch, T.

Inst : Not given

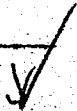
Title : Derivation of Butanol and Acetone from the Fermentation
of Sulfate Liquors

Orig Pub : Nova proizvodnja, 1958, 9, No 1-2, 70-72

Abstract : The fermentation of waste liquor (L) derived from the
sulfate treatment of beech wood pulp, was conducted in
laboratory employing *C1 acetobutylicum* bacteria, adopted
to L. For the reduction of losses encountered in
fermentation, L was subjected to the preliminary purifica-
tion by precipitating with $\text{Ca}(\text{OH})_2$ at 9pH. For additional
nutrition CaCO_3 , $(\text{NH}_4)_2\text{HPO}_4$ and molasses were added. The

Card 1/2

BLINER, I.



CA

27

Analysis of the soap mass formed after the saponification of fats with sodium carbonate. V.I. Bliner and A. Repin. Maslobitno Zhitovoe Delo 15, No. 6, 27-30 (1930).—The detn. of Na_2CO_3 depends on the reaction of free fat acids in the soap mass with NaOH or KOH in the presence of excess of the alkali with the Na_2CO_3 unchanged; the detn. of the free acids is based on the quant. neutralization of Na_2CO_3 in 60% alc. by the acids. To 2 sep. weighings (2 g. each) add 10 ml. of alc. 0.5 N KOH and 20 ml. alc. and reflux on a water bath until dissolved. Introduce into each flask 20 ml. H_2O to dissolve the Na_2CO_3 and cool. Det. $\text{Na}_2\text{CO}_3 + \text{KOH}$ in 1 flask by titration with 0.1 N HCl and phenolphthalein. To another flask add 25 ml. of 10% BaCl_2 to ppt. soap and Na_2CO_3 and titrate the excess of KOH with HCl . The difference between the 2 detns. gives Na_2CO_3 . To det. free fat acids, treat a 5-g. sample with 30 ml. of alc. 0.2 N fat acids (mol. wt. 200.20, which is close to the mol. wt. of free fat acids to be tested), add 20 ml. H_2O to obtain 60% alc. soln., reflux, cool and det. the excess of acids by titration with 0.2 N NaOH .
Chas. Blanc

LOPATIN, K.I., kandidat tekhnicheskikh nauk; ASKINAZI, Z.M., inzhener;
BLINER, L.G., inzhener; PETROV, Ye.M., inzhener; LOSEVA, T.K.;
SEVAST'YANOV, I.F.

Purification of water gas by triethanolamine. Masl.-zhir.prom.22
no.4:12-13 '56. (MIRA 9:9)

1.Leningradskiy khimiko-farmatsevticheskiy institut (for Lopatin).
2.Leningradskiy zavod "Salelin" (for Askinazi, Bliner, Petrov,
Sevast'yanov).

(Water gas) (Ethanol)

LEVIT, M.S., kand.tekhn.nauk; BLINER, L.G., inzh.; LOSEVA, T.K., inzh.

Determining content of small amounts of soap in oils during refining. Masl.-zhir.prom. 24 no.11:35-36 '58.

(MIRA 12:1)

1. Leningradskiy zavod "Salolin."
(Oils and fats--Analysis) (Soap)

AKATOV, K.K.; VINNITSKAYA, Ye.P., insh.; BLINER, L.G., insh.; ASKINAZI, Z.M., insh.

Refining hide fat. Masl.-shir.prom. 25 no.1:36-38 '59.

(MIRA 12:1)

1. Nevskiy mylovarenyy zavod (for Akatov). 2. Leningradskiy zavod "Salolin" (for Vinnitskaya, Bliner, Askinazi).
(Oils and fats)

BLINER, M. S.

Hardboards made of tan waste. Biul. tekhn.-ekon. inform. no. 11:72 '60.
(MIRA 13:11)

(Hardboard)

POPOV'YAN, I.M., prof., otv. red. (Saratov); NAPALKOV, P.N., zasl. deyatel' nauki prof., red.; ZAKHAROV, N.V., prof., red. [deceased]; BEL'SKIY, A.V., dots., red.; KOSHELEV, V.N., dots., red.; GORCHAKOV, L.G., red.; CHERNYSHEV, N.V., red.; BLINER, M.S., red.; ANDREYEV, P.P., red.

[Transactions of the Second Congress of Surgeons of the R.S.F.S.R.] Trudy vtorogo s"ezda khirurgov RSFSR. Saratov, Vser. nauchn. med. ob-vo khirurgov, 1963. 583 p.

(MIRA 17:8)

1. S"yezd khirurgov RSFSR. 2d, Saratov, 1962.

BLINKENA. A.

GENERAL

PERIODICALS: VESTIS, No. 2, 1958

BLINKENA. A. Real incentive and rhetorical, incentive sentences in the present
Latvian literary language. p. 47

Monthly list of East European Accessions (EEAI) LC Vol. 8, no. 2
February 1959, Unclass.

BLINKIEWICZ, Wanda, mgr inż., asystent

Transistorized vertical deflection amplifier in television receivers.
Prace Inst teletechn 5 no.1:21-32 '61.

1. Pracownia Transystorowych Układow Telewizyjnych, Instytut
Tele- i Radiotechniczny, Warszawa.

ACCESSION NR: AP4012034

S/0185/64/009/001/0091/0095

AUTHOR: Blinkin, A. M.; Vorobyov, V. V.

TITLE: Diffusion of iron in zirconium

SOURCE: Ukrayins'ky'y fizy*chny*y zhurnal, v. 9, no. 1, 1964, 91-95

TOPIC TAGS: iron, zirconium, diffusion coefficient, self-diffusion coefficient, self-diffusion temperature

ABSTRACT: Diffusion of iron in high purity zirconium was investigated by radio-scopic tracers in a specially designed apparatus. A new modification of the absorption method for finding the self-diffusion coefficient with the help of a control slice of 8 mm in diameter and 3 mm high is described. This method permits not to take into account the radioactive decay correction. The method applies thin radioactive layers on the heated surface of the sample by evaporation from the solid phase.

The coefficients of the diffusion of iron into zirconium were established. It is shown that the atomic mobility of iron in the zirconium lattice is higher than of tantalum and tin.

The relationship between the diffusion coefficients of iron in zirconium is given by formulas:

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ACCESSION NR: AP4012034

$$D_{\text{Zr}} = 2.5 \cdot 10^{-3} \exp\left(-48000 \frac{1}{RT}\right) \text{cm}^2 \cdot \text{sec}^{-1},$$

$$D_{\text{Zr}} = 4 \cdot 10^{-3} \exp\left(-30000 \frac{1}{RT}\right) \text{cm}^2 \cdot \text{sec}^{-1}.$$

The authors appreciate very much the sincere interest and help in this work of V. Ye Tvanov, doctor of phys. - math. sciences.
Orig. art. has: 2 figures, 7 formulas and 1 table.

ASSOCIATION: Kharkivs'ky devzhuniversity*tet (Kharkov State University)

SUBMITTED: 10Jun63

DATE ACQ: 14Feb64

ENCL: 00

SUB CODE: PH, ML

NO REF SOV: 005

OTHER: 005

Card 2/2

AMONENKO, V.M.; BLINKIN, A.M.; IVANTSOV, I.G.

Self-diffusion in strongly diluted binary solutions. Part 1. Effect of additions of tin and antimony on the self-diffusion of iron in the α -phase. Fiz. met. i metalloved. 17 no.1:56-62 Ja '64. (MIRA 17:2)

1. Fiziko-tehnicheskiy institut AN UkrSSR i Khar'kovskiy gosudarstvennyy universitet im. A.M.Ger'kogo.

BLINKIN, A.M.; VOROB'YEV, V.V. [Vorobyov, V.V.]

Diffusion of iron in zirconium. Ukr. fiz. zhur. 9 no.1:91-
95 Ja '64. (MIRA 17:3)

1. Khar'kovskiy gosudarstvennyy universitet.

137 AND 138 CHECKS PROCESSED AND PROPERTIES INDEX 300 AND 310 CHECKS

BLINKIN, B

ca

16

Lateral arrangement of mash coolers. B. Blinkin and Ya. Sberedin. *Spirio-Vodochnoye Prom.* 10, No. 10, 26 (1939).--An arrangement for rapid cooling of saccharified mash is described. High efficiency is achieved at low power cost, and operation at summer temp. is greatly facilitated. Artesian water is used in the coolers.
Julian F. Smith

COMMON ELEMENTS

INTERNATIONAL INDEX

ASB-55A METALLURGICAL LITERATURE CLASSIFICATION

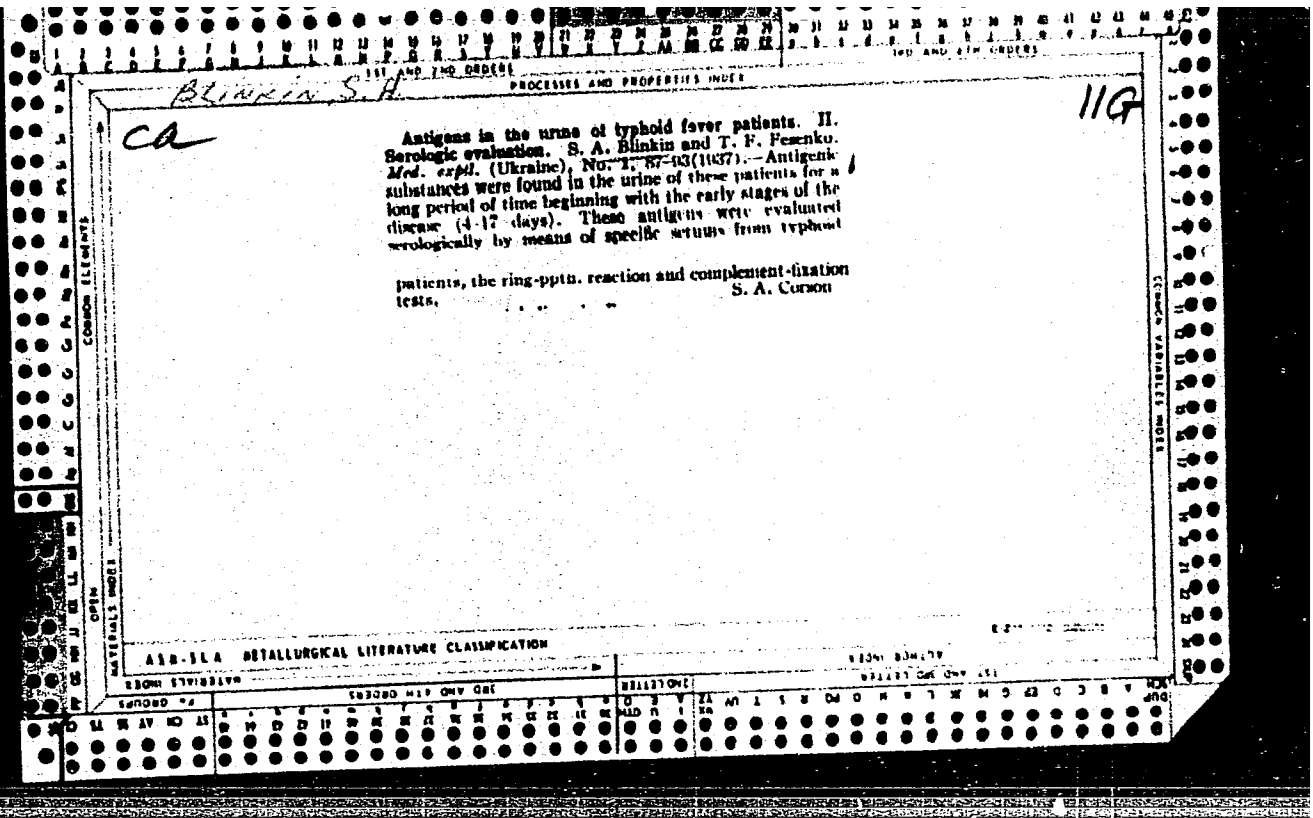
SEARCH SYMBOLS

SEARCH SYMBOLS	SEARCH SYMBOLS	SEARCH SYMBOLS
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z	A B C D E F G H I J K L M N O P Q R S T U V W X Y Z	A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

BLINKIN, S., dots.

Efficient system of supplying electric power to streetcars. Zhil.-kom.
khoz. 8 no.3:20-21 '58. (MIRA 11:4)

1. Khar'kovskiy institut inzhenerov kommunal'nogo stroitel'stva.
(Street railways) (Electric currents, Leakage)



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

117 AND 120 CIPHERS 118 AND 121 CIPHERS

Blivkin, S.A.

CA

PROCESSES AND PROPERTIES INDEX

The action of dyes on typhus neurovirus. V. S. Derkach and S. A. Blivkin. *Izv. vuzov. (Ukraine)* 1939, No. 1, 23-30; *Chem. Zentr.* 1940, II, 1588.—An investigation was made of the effects of different dyes on the neurovirus of typhus. The basic aniline dyes of the malachite green group and rosaniline and pararosaniline derivs. were found to be most active. The strongest action was shown by brilliant green and gentian violet; Me violet was less active while basic and acid fuchsin were still less so. Thionine was completely inactive; the same was true of the oxidation product of methylene blue, Azure 2, while methylene blue itself was active. Bismark Brown, neutral red and safranin showed only weak bactericidal activity. The acid dyes, eosin and alizarin red, showed either very slight bactericidal activity or none whatever.

M. G. Moore

11C

INTERNATIONAL METALLOGICAL LITERATURE CLASSIFICATION

63000 631000 632000 633000 634000 635000 636000 637000 638000 639000 640000 641000 642000 643000 644000 645000 646000 647000 648000 649000 650000 651000 652000 653000 654000 655000 656000 657000 658000 659000 660000 661000 662000 663000 664000 665000 666000 667000 668000 669000 670000 671000 672000 673000 674000 675000 676000 677000 678000 679000 680000 681000 682000 683000 684000 685000 686000 687000 688000 689000 690000 691000 692000 693000 694000 695000 696000 697000 698000 699000 700000 701000 702000 703000 704000 705000 706000 707000 708000 709000 710000 711000 712000 713000 714000 715000 716000 717000 718000 719000 720000 721000 722000 723000 724000 725000 726000 727000 728000 729000 730000 731000 732000 733000 734000 735000 736000 737000 738000 739000 740000 741000 742000 743000 744000 745000 746000 747000 748000 749000 750000 751000 752000 753000 754000 755000 756000 757000 758000 759000 760000 761000 762000 763000 764000 765000 766000 767000 768000 769000 770000 771000 772000 773000 774000 775000 776000 777000 778000 779000 780000 781000 782000 783000 784000 785000 786000 787000 788000 789000 790000 791000 792000 793000 794000 795000 796000 797000 798000 799000 800000 801000 802000 803000 804000 805000 806000 807000 808000 809000 810000 811000 812000 813000 814000 815000 816000 817000 818000 819000 820000 821000 822000 823000 824000 825000 826000 827000 828000 829000 830000 831000 832000 833000 834000 835000 836000 837000 838000 839000 840000 841000 842000 843000 844000 845000 846000 847000 848000 849000 850000 851000 852000 853000 854000 855000 856000 857000 858000 859000 860000 861000 862000 863000 864000 865000 866000 867000 868000 869000 870000 871000 872000 873000 874000 875000 876000 877000 878000 879000 880000 881000 882000 883000 884000 885000 886000 887000 888000 889000 890000 891000 892000 893000 894000 895000 896000 897000 898000 899000 900000 901000 902000 903000 904000 905000 906000 907000 908000 909000 910000 911000 912000 913000 914000 915000 916000 917000 918000 919000 920000 921000 922000 923000 924000 925000 926000 927000 928000 929000 930000 931000 932000 933000 934000 935000 936000 937000 938000 939000 940000 941000 942000 943000 944000 945000 946000 947000 948000 949000 950000 951000 952000 953000 954000 955000 956000 957000 958000 959000 960000 961000 962000 963000 964000 965000 966000 967000 968000 969000 970000 971000 972000 973000 974000 975000 976000 977000 978000 979000 980000 981000 982000 983000 984000 985000 986000 987000 988000 989000 990000 991000 992000 993000 994000 995000 996000 997000 998000 999000 1000000

BELYAYEVA, Ye.D., prof.; BLINKIN, S.A., prof.; DONSKAYA, Ye.A.; ALESHINA,
A.R.; YEGOROVA, A.S.

Treatment of dysentery in children with individual selection of
antibiotics depending on the sensitivity of the microbes. *Pediatrics*
37 no.8:82-86 Ag '59. (MIRA 13:1)

1. Iz pediatricheskoy i mikrobiologicheskoy kafedr Kalininskogo
meditsinskogo instituta (direktor - dotsent A.N. Kushnev) i infektsi-
onnogo otdeleniya 2-y gorodskoy bol'nitsy (glavnyy vrach O.A. Gol'd-
zand).

(DYSENTERY, BACILLARY, in infancy & childhood)
(ANTIBIOTICS, therapy)