

SHEYKO, Sergey Sergeyevich; YANKELEVICH, Mikhail Nikolayevich;
ANAN'YEV, A.I., retsenzent; ZOLOTUKHIN, P.Ye., retsenzent;
ILINICH, B.K., red.; TRUSOV, N.S., tekhn. red.

[Accounting and calculation of production costs in a clothing factory] Uchet i kal'kulirovanie sebestoimosti produktsii shveinoi fabriki. Leningrad, Gosmestpromizdat, 1962. 195 p.
(MIRA 16:4)

(Clothing industry—Accounting)
(Costs, Industrial)

SHEVKO, T.I.

Determination of the dyestuff content of dyed viscose. Khim.volok.
no.5:67-68 '60. (MIRA 13:12)

1. Kalininskiy kombinat.
(Dyes and dyeing--Rayon)

TUPITSYN, G.I.; SHEYKO, T.S.; YAKIMOV, S.Ya., red.; ANTONOVA,
S.D., red.izd-va; VLADIMIROVA, M.S., tekhn.red.

[Industrial safety and sanitation in electroplating shops]
Tekhnika bezopasnosti i proizvodstvennaia sanitariia v
gal'vanicheskikh tsekhakh. Izd.2., perer. Moskva, Oboron-
giz, 1963. 206 p. (MIRA 17:3)

1. ZHUKOV, V.
2. USSR (400)
4. Radio, Short Wave Competitions
7. Competitions of the Kharkov short-wave operators. Radio no. 12, 1952.

9. Monthly List of Russian Accessions, Library of Congress, March, 1953. Unclassified.

1. ШИШКО, В.
2. USSR (600)
4. Radio - Short-Wave - Kharkov
7. Short-wave department of the Lenin Polytechnical Institute at Kharkov, Radio, No. 2, 1953.

9. Monthly List of Russian Accessions, Library of Congress, May 1953, Unclassified.

SHEYKO, V.

Radio - Receivers and Reception

Reception of amateur radio stations on radiobroadcasting receiver. Radio. No. 5, 1953.

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

TARANOV, R., inzhener; SHEYKO, V., inzhener; VOLKIN, P., (Losino-Petrovsk, Moskovskaya oblast'); FEKHTEL, K.; MIROMENKO, V.; ZUYEV, N.; SHOYKHET, A.

Accounts by participants. Radio no.10:18-20 '56. (MLRA 9:11)

1. Nachal'nik respublikanskogo radiokluba Dobrovol'nogo obshchestva sodeystviya armii, aviatsii i flotu Moldavskoy SSR (for Zuyev) 2. Starshiy inzhener respublikanskogo radiokluba Dobrovol'nogo obshchestva sodeystviya armii, aviatsii i flotu Moldavskoy SSR (for Shovkhet).

(Radio, Shortwave--Competitions)

9(1)

SOV/107-59-4-33/45

AUTHOR: Sheyko, V. (UB5C1)

TITLE: A Short Wave Antenna (Korotkovolnovaya antenna)

PERIODICAL: Radio, 1959, Nr 4, pp 44 - 47 (USSR)

ABSTRACT: The author explains details of the two-range, rotating, directional antenna used by the British radio amateur G4ZU. The second part of the article contains instructions for building such an antenna. There are 2 drawings, 5 diagrams, 1 graph and 5 Soviet references.

Card 1/1

22(

05403
SOV/107-59-8-23/49

AUTHOR: V. Sheyko, ~~UB5CI~~, (Khar'kov)

TITLE: Training of the Short-Wave Radio Ham

PERIODICAL: Radio, 1959, Nr 8, pp 30-31 (USSR)

ABSTRACT: The author, a radio ham since 1948, tells about his experience in amateur contests. With the assistance of R.O.Taranov (UB5DQ) and M.A. Vorob'yev(UB5BC) he worked himself up from a radio circle in the elementary school to become a member of a radio club. Finally, he became a student at the radio department of a vuz. He describes the transmitter and receiver equipment which he uses for work on all amateur ranges and recommends some practice exercises for participating in contests. Amateurs should always have their equipment in working order, and they should not work on repairs and adjustments during the last days before a contest. They should study in advance the

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Training of the Short-Wave Radio Ham

propagation of radio waves, and should inform themselves on other stations which could possibly be contacted. During the contest they should check periodically all available ranges for rare contacts. Amateurs should get some rest before starting in a contest.

Card 2/2

SHEVKO, V. (UB5C1)

Calculation of a π network. Radio no.1:21-22 Ja '60.
(MIRA 13:5)

(Electric filters)

SHEYKO, V. (UB5CI); BURKO, G. (UB5LY) (Khar'kov)

Converter for a band of 420 to 435 megacycles. Radio no.6:38-39
Je '60. (MIRA 13:7)

(Frequency changers)

SHEVKO, V. (UB5C1)

Listen to ~~UB5KCH~~. Radio no.6:41 Je '60.
(Kharkov--Amateur radio stations)

(MIRA 13:7)

GULYAYEV, G.; GAUKHMAN, R., master radiosporta (Moskva); GONCHARSKIY, V.; master radiosporta (L'vov); BUNIMOVICH, S., master radiosporta, (Stalino); SELEVKO, Yu., master radiosporta; IVANOVA, Ye., master radiosporta (Chelyabinsk); LABUTIN, L., master radiosporta (Moskva); SHEYKO, V., master radiosporta; GESSELEV, B., master, radiosporta (Khar'kov); Shtraus, V., pervorazryadnik (Buguruslan); VOLOSYAN, M., pervorazryadnik (Simferopol').

Is it really entertainment and not sport? Radio no.5:13-14 My '60.
(MIRA 13:12)

1. Predsedatel' sportivnoy komissii Federatsii radiosporta SSSR (for Gulyayev).

(Amateur radio stations)

RYZHOV, Petr Aleksandrovich. Primali uchastiye: BUKRINSKIY, V.A.,
kand. tekhn.nauk, dots.; GUDKOV, V.M., kand.tekhn.nauk,
dots.; RUDAKOV, M.L., doktor tekhn.nauk, prof.; SHEYKO,
V.G., inzh.; BYSTRIGIN, N.M., inzh.; TROFIMOV, A.A., prof.,
retsenzent; OGLOBLIN, D.N., prof., retsenzent; SLAVOROSOV,
A.Kh., red.izd-va; BOLDYREVA, Z.A., tekhn. red.; EPPEL',
N.Ya., tekhn. red.; SHITOVA, A.S., tekhn. red.

[Geometry of mineral deposits] Geometriia nedr. Izd.3., pe-
rer. i dop. Moskva, Izd-vo "Nedra," 1964. 500 p.

(MIRA 17:3)

U

ALEKSEYEV, F.K.; ANDRIYUTS, G.L.; ARSENT'YEV, A.I.; ASTAF'YEV, Yu.P.;
BEVZ, N.D.; BEREZOVSKIY, A.I.; GENERALOV, G.S.;
DOROSHENKO, V.I.; YESHCHENKO, A.A.; ZAPARA, S.A.; KALINICHENKO, V.F.;
KARNAUSHENKO, I.K.; KIKOVKA, Ye.I.; KOBOZEV, V.N.; KUPIN, V.Ye.;
LOTOUS, V.K.; LYAKHOV, N.I.; MALYUTA, D.I.; METS, Yu.S.; OVODENKO,
B.K.; OKSANICH, I.F.; PANOV, V.A.; POVZNER, Z.B.; PODORVANOV, A.Z.;
POLISHCHUK, A.K.; POLYAKOV, V.G.; POTAPOV, A.I.; SAVITSKIY, I.I.;
SERBIN, V.I.; SERGEYEV, N.N.; SOVETOV, G.A.; STATKEVICH, A.A.;
TERESHCHENKO, A.A.; TITOV, O.S.; FEDIN, A.F.; KHOMYAKOV, N.P.;
~~SHEYKO, V.G.~~; SHEKUN, O.G.; SESTAKOV, M.M.; SHTAN'KO, V.I.

Practice of construction and exploitation of open pits of Krivoy
Rog Basin mining and ore dressing combines. Gor. zhur. no.6:
8-56 Je '63. (MIRA 16:7)

(Krivoy Rog Basin—Strip mining)

FAL'KEVICH, A.S., kand.tekhn.nauk; SHEYNKIN, M.Z., inzh.; SHEYKO, V.I., inzh.;
FIL'CHAKOV, A.A., inzh.; TROYEPOL'SKIY, V.N., inzh.; LIMAN, Yu.A.,
inzh.; CHERNYSHENKO, I.G.; LYUBCHENKO, A.I., inzh.; KVARTIN, I.I.,
inzh.; KALASHNIKOV, F.I., inzh.; GOLOSOV, I.P.

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po stroitel'stvu magistral'nykh truboprovodov (for Fal'kevich, Sheynkin).
2. Proyektno-konstruktorskoye byuro "Glavstroymekhanizatsiya" Ministerstva transportnogo stroitel'stva SSSR (for Troyepol'skiy, Liman).
3. Yasinovatskiy mashinostroitel'nyy zavod (for Chernyshenko).
4. Stalinskiy zavod sel'skokhozyaystvennogo mashinostroyeniya (for Lyubchenko).
5. Ddesskiy zavod prodovol'stvennogo mashinostroyeniya (for Kvartin, Kalashnikov).
6. Staro-Kramatorskiy mashinostroitel'nyy zavod (for Golosov).
(Welding) (Protective atmospheres)

AID P - 4869

Subject : USSR/Engineering
Card 1/1 Pub. 107-a - 3/14
Authors : Aristov, V. S. and V. I. Sheyko
Title : Dependence of mechanical properties of fused metal upon
the length of the arc in welding with austenite electrodes.
Periodical : Svar. proizvod., 4, 9-12, Ap 1956
Abstract : The authors present results of their investigation of the
subject, supplemented with the experience and records of
several industrial plants. They provide several practical
suggestions pertaining to the length of the arc, which
affects mechanical properties of fused metal and depends
on various characteristics and conditions. Four tables,
5 graphs and 1 drawing. 2 Russian references (1952-54).
Institution : Central Scientific Research Institute of Machine-Building
Technology (TsNIITMASH).
Submitted : No date

S/135/61/000/001/013/018
A006/A001

AUTHORS: Sheyko, V.I., Fil'chakov, A.A., Engineers

TITLE: On Welding in Water Vapor Medium

PERIODICAL: Svarochnoye proizvodstvo, 1961, No. 1, pp. 43 - 44

TEXT: With reference to L.S.Sapiro's theory on the use of water vapor as a shielding medium in welding low carbon steel, the authors present some criticisms. It is pointed out that the savings obtained by the cheaper shielding atmosphere are not compensated by a decrease in efficiency of the welding process as compared to welding in carbon dioxide. The use of Sv-08 wire, as recommended by Sapiro, does not assure stable mechanical properties of the weld metal, equalling those obtained with J 42 (E42) type electrodes. Taking into account the strong oxidizing nature of the atmosphere when welding in water vapor, and, as a result, the inconsiderable raise of strength of the weld metal at low values of its ductility, the use of an alloyed wire is not recommended for this type of welding. This method, using Sv-08 wire is only recommendable for unimportant weld joints and repairs, if the efficiency of welding does not play a crucial part. There is 1 table and 1 Soviet reference. ✓

Card 1/1

ZOLOTOV, V.N., inzh.; BERDICHEVSKIY, B.Ye., inzh.; SHEYKO, V.I., inzh.

Dnepropetrovsk Economic Region at the Exhibition of Progressive
Practices in the National Economy of the Ukrainian S.S.R. Met.
i gornorud.prom. no.5:85 S-0 '62. (MIRA 16:1)
(Dnepropetrovsk Province—Industries)

SHEYKO, V.P. [Sheiko, V.P.]; NECHAYEVA, I.Ya. [Nechaieva, I.IA.]

Investigating the calculation of one of the 10 cm. wave-band
frequency divider designs. Urk. fiz. zhur. 5 no. 5:656-665
S-0 '60. (MIRA 14:4)

1. Khar'kovskiy gosudarstvennyy universitet.
(Triodes) (Frequency changers)

SHEYKO, Vladimir Pavlovich; GODINER, F.Ye., red.; LOMANOVICH, V.A., red.; KOROLEV, A.V., tekhn. red.

[Antennas for amateur radio transmitters]Antenny liubitel'skikh radiostantsii. Moskva, DOSAAF, 1962. 123 p.

(MIRA 15:9)

(Amateur radio stations--Equipment and supplies)
(Radio--Antennas)

37189
S/185/62/007/004/013/018
D407/D301

24,3400

AUTHOR:

Sheyko, V. P.

TITLE:

Choice of optimal parameters of reflection grating of a diffraction resonator

PERIODICAL:

Ukrayins'kyy fizychnyy zhurnal, v. 7, no. 4,
1962, 430-435

TEXT: A diffraction resonator is described which has the properties of a multi-ruled reflection grating, as well as those of a disc resonator; by means of such a device, it is possible to considerably improve the parameters of wavemeters and spectrometers. The basic parameters of a ruled grating, used as a diffraction wavemeter or as a spectrometer, are the width of the monochromatic energy distribution at the k -th maximum, and the resolution. The device is used in ultra-high-frequency radio-engineering. It incorporates, in addition to the reflection grating, one or two reflecting metal mirrors. The rulings of

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S/185/62/007/004/013/018
D407/D301

Choice of optimal...

the gratings are chosen in such a way that the angle of incidence i and the angle of observation ψ should be equal, provided that a maximum exists in a wide frequency range; at the same time, these angles are variable. Only a grating of certain dimensions and shape can comply with this condition. The graphs of the angles $i = \psi$ versus g/λ (g being the width of the ruling) are plotted for various h/g (h denoting height) and maxima. Formulas are given for the Q-factor of a disc resonator. It is noted that the presence of the resonator mirror D_2 permits a double signal-passage: direct and inverse. This leads to a great increase in resolution. It is noted also that the 2 mirrors have to be absolutely parallel. The described diffraction resonator is quite simple to operate. The experiments conducted with it showed that the theoretical and experimental characteristics were in fair agreement. The spectral characteristics of the device were considerably improved by double passage of the signal, with a Q-factor of the resonator, close

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Choice of optimal...

S/185/62/007/004/013/018
D407/D301

to 500. The range of wavelengths of the resonator can be extended 4 - 5 fold by using higher-order interference maxima. There are 5 figures and 4 references: 3 Soviet-bloc and 1 non-Soviet-bloc. The reference to the English-language publication reads as follows: Williams, Rev. Mod. Phys., 14, 64, 1942.

ASSOCIATION: Kharkivs'kyi derzhuniversytet im. O. M. Gor'kogo
(Kharkiv State University im, O. M. Gor'kiy)

SUBMITTED: July 4, 1961

X

Card 3/3

L 16206-63

BDS

ACCESSION NR: AR3005181

S/0058/63/000/006/EO40/EO40

SOURCE: RZh. Fizika, Abs. 6 Zh255

47

AUTHOR: Sheyko, V. P.; Valitov, R. A.

TITLE: Account of influence of width of microwave generator signal spectrum in operation with steplike reflecting grating array

CITED SOURCE: Uch. zap. Khar'kovsk. un-t, v. 1a7, 1962, Tr. Radiofiz. fak., v. 6, 83-86

TOPIC TAGS: Microwave oscillation, reflection, grating array

TRANSLATION: Some features of the application of optical methods of spectral analysis of microwave generator oscillations are considered. The dispersion and the angular shift of the spectral maxima upon reflection of a normally incident signal from the broadband steplike grating is calculated. The probable error in the measurement of the wavelength of the spectral line, brought about by the non-monochromaticity of the signal, is determined. The method proposed by the authors makes it possible to estimate beforehand the possible measurement errors when operating with a steplike reflecting grating in the case of vertical polarization of the beamed signal.

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S/058/63/000/003/084/104
A059/A101

AUTHORS: Provalov, A. V., Sheyko, V. P., Sidorenko, B. G.

TITLE: The problem of possibility of using dense wire gratings in an interferometer for measurements at UHF

PERIODICAL: Referativnyy zhurnal, Fizika, no. 3, 1963, 24, abstract 3Zh140 ("Uch. zap. Khar'kovsk. un-t", 1962, v. 121, "Tr. Radiofiz. fak", v. 5, 139 - 144)

TEXT: The applicability of dense wire gratings in the extremely high frequency range is examined. The calculated results for the reflection coefficient and the transmission coefficient of electromagnetic waves through such gratings with different wave lengths and different angles of incidence ψ are given. The experimental verification of this dependence with an UHF analogue of the optical interferometer in the 7.8 to 8.5 mm band at $\psi = 0^\circ$ and 45° showed a satisfactory agreement with calculation in the Fraunhofer diffraction band at a distance of 70 cm. The double-diffraction grating with different distances between the single gratings at a random angle of incidence has also been exa-

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The problem of possibility of using dense wire...

S/058/63/000/003/084/104
A059/A101

mined. It was shown that the resolving capacity of the UHF interferometer with double-diffraction grating exceeds the resolving capacity of Michelson's and Boltzmann's interferometers. Maximum resolving capacity for each wavelength is obtained at a specified optimum distance between the single gratings. In order to increase the clarity of interferometer patterns, the number of gratings in the interferometer should be increased.

V. Medvedev

[Abstracter's note: Complete translation]

Card 2/2

SHEYKO, V. P.

ACCESSION NR: AR3000175

S/0274/63/000/004/A060/A060

SOURCE: RZh. Radiotekhnika i elektrosvyaz', Abs. 4A373

AUTHOR: Kuz'michev, V. M.; Sheyko, V. P.

TITLE: Design of pulse transformer for semiconductor triode circuits

CITED SOURCE: Uch. zap. Khar'kovsk. un-t. Tr. Radiofiz. fak., v. 121, no. 5, 1962, 164-168

TOPIC TAGS: pulse transformer design; semiconductor triode circuits; parameter calculations

TRANSLATION: Conventional pulse transformers do not permit to obtain narrow pulses of good rectangularity in semiconductor triode circuits, because their stray capacitance, stray inductance and transfer capacitance are too high. The values of parasitic parameters can be reduced to a minimum by a proper design of the transformer. The transformer is

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ACCESSION NR: AR3000175

made with a toroidal ferrite core, and in lieu of the ordinary round wire a flat copper tape is used, which is wound on the core in a single layer. The windings are arranged in such a manner that the turns of the secondary winding are located between the turns of the primary. With such a design it is possible to obtain a transformation ratio in the range of 1-3. Calculations of all the parameters of the 2-winding transformer of the proposed design are presented, and also the results of experimental verifications, which are in good agreement with the calculations. Orig. art. has: 4 references. V. P.

DATE ACQ: 16 May 63 ENCL: 00

SUB CODE: 00

Card 2/2

L 15021-65 SSD/AFWL/ASD(a)-5/AEDC(b)/AFETR/ESD(83)/ESD(t) 8/0056/64/047/004/1173/1177
ACCESSION NR: AP4047881

AUTHOR: Valitov, R. A.; Dyubko, S. F.; Kamyshyan, V. V.; Sheyko, V. P.

TITLE: A method for measuring the field distribution in an open resonator

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 47, no. 4, 1964, 1173-1177

TOPIC TAGS: laser mode analysis, electromagnetic field distribution, open resonator

ABSTRACT: A new method based on the introduction of a small energy absorbing body into the resonance volume is proposed for investigating the amplitude distribution of fields in open resonators. The method is free of the general drawbacks of existing methods in that there is no need for using a highly stable microwave signal source. It is essentially a modification of the method of small perturbations based on determination of the cavity detuning caused by introduction of a small perturbing body, and permits easy measurements of the

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L 15021-65

ACCESSION NR: AP4047881

amplitude distribution of the field for any mode in the cavity. The perturbing body is a small piece of rubber or polyethylene containing a large amount of lampblack. It was used to determine the fields at the mirrors of an open resonator with spherical reflectors. The results have shown that only the fundamental mode exhibited circular symmetry, which persisted for not too great a misalignment of the mirrors. On the other hand, the predicted higher-order even-symmetry modes turned out to be unstable in the sense that in the real cavity they split readily into a series of modes having more complicated field configurations, exhibiting azimuthal dependence, and having nearly equal resistance frequencies. The splitting is probably due to the nonideal geometry of the real cavity. Although the method is similar to one recently described by R. W. Zimmerer (IEEE Trans. MTT-11, NO. 5, 371, 1963), the latter does not yield the distribution for each mode separately, but only the total field distribution. "The authors thank M. N. Yefimanko and Yu. M. Logvinov for preparing the experimental setup." Orig. art. has: 5 figures and 2 formulas. 3

ASSOCIATION: Khar'kovskiy gosudarstvennyy universitet (Kharkov State University)

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L 15021-65

ACCESSION NR: AP4047881

SUBMITTED: 23Mar64

ENCL: 00

SUB CODE: EC, EM

NO REF SOV: 001

OTHER: 004

ATD PRESS: 3143

Card 3/3

VALITOV, R.A.; DYUBKO, S.F.; KAMYSHAN, V.V.; SHEYKO, V.P.

Method for measuring the field distribution in an open resonator.
Zhur. eksp. i teor. fiz. 47 no.4:1173-1177 O '64.

(MIRA 18:1)

1. Khar'kovskiy gosudarstvennyy universitet.

L 26956-65 EWT(d)/EWT(1)/EEC(b)-2/EWA(h) Pn-4/Pac-4/Peb/Pi-4/Pj-4

ACCESSION NR: AP5005228

S/0057/65/035/002/0279/0281

AUTHOR: Dyubko, S. F.; Kamyshan, V. V.; Sheyko, V. P.

42
27
B

TITLE: Experimental study of a basic mode distribution in open resonators with spherical mirrors

25

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 35, no. 2, 1965, 279-281

TOPIC TAGS: mode distribution, open resonator, Q spoiling, mode excitation

ABSTRACT: It was indicated earlier by R. A. Valitov and the present authors (ZhETF 47, 1173, 1964) that study of the amplitude distribution of the electromagnetic field in open resonators is possible by means of the Q-spoiling effect and use of a low-absorbing element in the resonator. This method can also be used to study basic mode field distribution (without higher mode noise) and the effect on field distribution of mirror misalignment and other inhomogeneities within the resonator. To simplify the theoretical computations, the resonator dimensions were made larger than the wavelength. The radii of curvature of the mirrors was 1250λ , the maximum diameter was 85λ , and the distance between mirrors $2l$ was varied from 1650 to 620 λ . In order to measure the Fresnel numbers for a given distance between reflectors, the latter were coated with black rubber on which large amounts of

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ACCESSION NR: AP5005228

carbon black had been deposited. The resonator was excited by an open-end waveguide located at the center of one mirror; the other mirror housed a radiation sensor. Measurements were made for confocal resonators for which the distance between mirrors was $2L > r$. An unexpected satisfactory agreement between theoretical and experimental results was achieved. Introduction of a dielectric (foam polystyrol) into the resonator caused displacement of the field pattern in the direction of the dielectric similar to the one produced by misalignment, and the nonsymmetrical placement and inhomogeneities of the dielectric resulted in distortion of the field intensity lines. The Q of the resonator was reduced in the process from 7 to 1×10^5 . Although a uniformly distributed inhomogeneity (a sheet of cigarette paper) did not affect the field distribution pattern, it caused a considerable decrease in the Q. This case can be compared to a reduction of the reflection coefficient of a mirror. The method was further checked by introducing an additional, small, but highly absorbing probe-like inhomogeneity into the resonator. The field distribution pattern, plotted with an accuracy up to 1—3%, was independent of the position of the additional probe. Orig. art. has: 3 figures. [YK]

ASSOCIATION: Khar'kovskiy gosudarstvennyy universitet im. A. M. Gor'kogo (Khar'kov State University)

Card 2/3

L 26956-65

ACCESSION NR: AP5005228

SUBMITTED: 29Apr64

ENCL: 00

SUB CODE: EC,EM

NO REF SOV: 002

OTHER: 001

ATD PRESS: 3189

Card 3/3

ЛУЧЕВ. С.П.; РАМЫШИН, В.В.; ЧЕЧКО, В. .

Experimental study of the distribution of the field of the main
mode in open cavities with spherical mirrors. Zhur. tekhn. fiz.
35 no.2:279-281 F 1965. (MIRA 18:4)

1. Nizhnekovskiy gosudarstvennyy universitet imeni Gor'kogo.

L 7747-66 EWA(k)/FBD/EWT(1)/EEC(k)-2/T/EWP(k)/EWA(m)-2/EWA(L) IJP(c) WG/

ACC NR: AP5025893 WH/GG SOURCE CODE: UR/0057/65/035/010/1806/1816

AUTHOR: ^{44,55} Dyubko, S.F.; ^{44,55} Kamyshan, V.V.; ^{44,55} Shevko, V.P. 98
90ORG: ^{44,55} Khar'kov State University im. A.M.Gor'kiy (Khar'kovskiy gosudarstvennyy universitet) B

TITLE: On the instability of confocal systems

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 35, no. 10, 1965, 1806-1816

TOPIC TAGS: ^{21,44,55} resonator, ^{21,44,55} laser, ^{21,44,55} electromagnetic wave diffraction

ABSTRACT: The power losses of open square resonators with apertures from 10 to 18.2 wavelengths and radii of curvature from 45 to 52 wavelengths were measured as functions of the distance between the reflectors. Coupling to the resonator was provided by small openings in the centers of the reflectors. Microwave power was produced with a thermostated klystron supplied from regulated rectifier. Batteries were employed for cathode heating current and the reflector and focusing potentials, and pulling of the oscillator frequency by the resonator was suppressed by a directional coupler providing 25 db of decoupling. A frequency stability of one part per million was achieved. The klystron output was amplitude modulated at audio frequency and the signal was amplified after detection with a narrow-band audio amplifier. Curves are presented showing the envelopes of the amplitudes of the TEM₀₀, TEM₀₁, TEM₀₂, TEM₀₃,

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UDC: 538.565

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ACC NR: AP5025893

6

and TEM₀₄ modes. These curves show complex structure with numerous minima, and there is a particularly pronounced minimum at the separation at which the reflectors are confocal. This minimum is ascribed to coupling due to imperfections of the reflectors between the various modes that degenerate under confocal conditions, as a result of which energy escapes into the higher modes where diffraction losses are large. Amplitude and phase distributions on the reflectors were calculated with the aid of the integral equation of A.G.Fox and T. Li (BSTJ, 40, 453, 1961) and the results are presented graphically and discussed briefly. It is concluded that the requirement that the reflectors be confocal, sometimes specified with close tolerance in laser design, is not only unnecessary but even disadvantageous. The authors thank Professor R.A.Valitov for his interest in the work and E.D.Sitnikov for his assistance with the calculations. ^{4/55} Orig. art. has: 2 formulas and 6 figures 4,55

SUB CODE: EC, EM, OP/ SUBM DATE: 12Nov64/ ORIG REF: 006/ OTH REF: 006

Card 2/2

SHEYKO, V.S.

Portable equipment for checking electric meters. Izv. tekhn.
no.2:56-58 Mr-Ap '58. (MIRA 11:3)
(Electric meters--Testing)

СМЕЛИК, М. Я.

Card. Tech. Sci.

Dissertation: "Effect of the Twist Extent of Neft Yarn on the Structure and Physico-mechanical Properties of Cotton Cloth of Course Siles Type." Moscow Textile Inst, 1 Jul 47.

SC: Vechnaya Pamyat, Jul, 1947 (Project #17:36)

SHEYKO, V. YE.

Glass Fibers

Textiles from glass fibers. Leg. prom. No. 1, 1952.

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

Sheyko, V.E.

USSR/Miscellaneous - Glass cloth

Card 1/1 Pub. 77 - 9/20

Authors : Sheyko, V. E., Card. Tech. Sci.

Title : Glass fiber

Periodical : Nauka i zhizn' 21/12, 23-24, Dec 1954

Abstract : The process of making glass fibers of 5 to 7 microns in diameter is described. The use to which these fibers can be put is stated, including the making of cheap cloth, which has many advantages for certain uses, such as in filtering. Illustrations.

Institution : ...

Submitted : ...

SHEYKO, V. Ye.

25(1), 25(5)

AUTHOR: None Given

SOV/72-58-12-21/23

TITLE: Conference of Functionaries of the Glass Industry
(Soveshchaniye rabotnikov stekol'noy promyshlennosti)

PERIODICAL: Steklo i keramika, 1958, Nr 12, pp 45-46 (USSR)

ABSTRACT: The conference of functionaries of the glass industry of the RSFSR was held in the town of Vladimir from October 21-23, 1958. The organizing bodies were: Gosudarstvennyy nauchno-tekhnicheskiy komitet Soveta Ministrov RSFSR (Scientific-Technical State Committee of the Council of Ministers of the RSFSR), Gosplan RSFSR (State Office for Economic Planning of the RSFSR), Vsesoyuznoye khimicheskoye obshchestvo imeni D.I. Mendeleyeva (All-Union Chemical Society imeni D.I. Mendeleev) and Vladimirskiy sovmarkhoz (Vladimir Council of National Economy). The topic of the conference was: Perfection of production processes, introduction of general mechanization and automatic control in the factories for building and technical glass, glass fiber, glass containers and vessels. A.S. Boldyrev, Deputy Chairman of the Scientific-Technical State Committee of the Council of Ministers of the RSFSR, in his opening speech termed the elaboration of measures for further development of the glass industry by introduction of the latest technical achievements as well as the experience of leading

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Conference of Functionaries of the Glass Industry

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factories to be the most important task. He stressed that the achievements of Soviet and foreign science and engineering should be considered in planning new works. The following reports were given: F.G. Solinov, Director of the Gosudarstvennyy nauchno-issledovatel'skiy institut stekla (Scientific State Research Institute for Glass) reported on the basic trend of scientific research, experimental and construction work in glass industry.

V.Ye. Sheyko, Director of the Vsesoyuznyy nauchno-issledovatel'skiy institut steklovolokna (All-Union Scientific Research Institute for Glass Fiber) spoke on the prospects of development in the production of glass fiber and its products.

Voshchilov, Deputy Chief-Engineer of the GPI-3, reported on mechanization and automatic control in the factories of bottle and vessel production.

M.G. Stepanenko, Professor, Director of the laboratoriya Instituta Stekla (Laboratory of the Glass Institute), reported on the introduction of electric and gas-electric furnaces.

I.D. Tykachinskiy, Director of the Laboratory of the Glass Institute, spoke on methods and experiments of intensifying the glass melting process by increasing the melting temperature and using chemical accelerators.

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N.V. Solomin, Professor, Director of the Laboratory of the Glass Institute, spoke on measures of supplying the glass industry with high-grade refractory products.

D.S. Rutman, Chief Engineer of the Podol'skiy ogneupornyy zavod (Podol'skiy Factory of Refractory Products) spoke on the manufacturing technology and the properties of refractory products of this factory.

A.G. Minakov, Deputy Chief Engineer of the Konstantinovskiy zavod "Avtosteklo" (Konstantinovskiy Works "Avtosteklo") reported on experiments of extension of the furnace working period by artificial cooling of the furnace brick lining.

V.G. Gutop, Director of the Laboratory of the Glass Institute, reported on the development in automatic control of working conditions for glass melting furnaces.

V.V. Erlandts, Deputy Chief of the Otdel stroitel'nykh materialov Gosstroya SSSR (Section for Building Materials of the Gosstroy USSR), spoke on the demands of building experts to the glass industry.

D.I. Klegg, Chief Engineer of the Gusevskoy stekol'nyy zavod imeni Dzerzhinskogo (Gusevskoy Glassworks imeni Dzerzhinskiy), reported on the operation of tank furnaces in this factory.

The work of the conference was done in 4 sections: Building and technical glass, vessels, glass containers, glass fiber and glass plastics.

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In the sections, the following persons were speaking: S.M. Brekhovskikh, Gosplan SSSR (Gosplan of the USSR); V.N. Alekseyev, Institut novykh stroitel'nykh materialov Akademii stroitel'stva i arkhitektury SSSR (Institute of New Building Materials of the Academy for Building and Architecture of the USSR); L.V. Cherevatenko, Bytoshevskiy zavod (Bytoshevskiy Factory); V.I. Dyat'ko, Chagodoshchenskiy zavod (Chagodoshchenskiy Factory); A.I. Ivanova, Institut steklovolokna (Institute of Glass Fiber); I.A. Figurovskiy, Gusevskoy khrustal'nyy zavod (Gusevskoy Crystal Works); V.G. Chistoserdov, Leningradskiy zavod khudozhestvennogo stekla i sortovoy posudy (Leningrad Works of Artificial Glass and Vessels); B.M. Shalunov, Urshel'skiy zavod (Urshel'skiy Works); V.S. Lazarev, steklozavod imeni Kommunisticheskogo dobrovol'cheskogo otryada (Glassworks imeni Communist Voluntary Detachment); D.P. Kropotov, Moskovskiy zavod imeni Kalinina (Moscow Works imeni Kalinin); P.P. Darnovo, Tsentral'noye proyektno-konstruktorskoye byuro Ministerstva zdravookhraneniya SSSR (Central Projecting and Design Office of the Ministry of the Protection of Health USSR); K.A. Zelenskiy, Roslavl'skiy zavod (Roslavl'skiy Works); N.V. Chernov, Kalininskiy sovnarkhoz (Kalinin Council of National Economy); V.A. Kuzyak (GPI-3); V.I. Shakhurin (Scientific-Technical State Committee of the Council of Ministers of the RSFSR), and others. The

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members of the conference passed a resolution saying that measures should be taken for further development in the glass industry by the introduction of modern technical achievements.

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SHEYKO, V.Z. (Leningrad, D-104, Liteynyy prospekt, 59, kv.2)

Regional pervasion in malignant tumors of the head and neck. Vop.
onk. 10 no.4:93-99 '64. (MIRA 17:11)

1. Iz kafedry torakal'noy khirurgii i anesteziologii (zav. - prof.
S.A. Gadzhiyev) Leningradskogo ordena Lenina instituta usovershen-
stvovaniya vrachey imeni Kirova.

SH YKO, Ye.

Sheyko, Ye. "Summer reserves of mouse-type rodents, in the semi-desert steppe,"
Sbornik nauch. rabot studentov (Rost. n/D gos. un-t im. Molotova), Issue 1,
1949, p. 107-11

SO: U-3566, 15 March, 53 (Letopis 'Zhurnal 'nykh Statey, No. 14, 1949).

SHEYKO, Ye.P. [Sheiko, IE.P.], aspirant

Fight agaist soil erosion. Mekh. sil'. hosp. 13 no.8:8-10 Ag '62.
(MIRA 15:7)

1. Ukrainskaya sel'skokhozyaystvennaya akademiya.
(Soil conservation)

1. 100. 100. 100. 100.

Public competitive evaluation in the geological prospecting
operations of the Main Geological-Prospecting Administration
of the Ukrainian S.S.R. Approved. 1 okh. nedn 30 no. 10-10-
01/80. CHINA 10/10.

1. Ukrainskiy respublikanskiy komitet professional'nogo soyusa
rabochikh geologov i vodoravnich rabot (for bas'kov). 2. Glavnoye
upravleniye geologii i obratny neft pri Sovete Ministrov UkrSSR
(for Sneyko).

TEPLITSKAYA, Ye.S.; MALAYA, L.P.; MIRGORODSKAYA, A.K.; SHEYKO, Z.A.;
KOGAN, TS.I.; OSIPOVA, Ye.S.; GIRGORASH, N.G.; PANKRATOVA, V.S.;
GORBACHEVA, L.Ye.

Species of dysentery pathogens encountered in 1959 in certain regions
of Dnepropetrovsk Province and their sensitivity to the dysentery
bacteriophage and antibiotics. Vrach. delo no.9:116-118 S '61.
(MIRA 14:12)

(DNEPROPETROVSK PROVINCE—SHIGELLA)
(BACTERIOPHAGE) (ANTIBIOTICS)

SAVINOV, O.A., kandidat tekhnicheskikh nauk; LUSKIN, A.Ya., inzhener; PAZHI, V.M.,
inzhener; TSEYTLIN, M.G., inzhener; SHEYKOV, M.L., inzhener.

Exploratory percussion drilling (for discussion). Stroi.prom. 31 no.10:8-11
0 '53. (MIRA 6:11)
(Boring)

PAZHI, V.M. (Leningrad); SHEYKOV, M.L. (Leningrad)

Using vibroboring methods in tests at construction sites.
Osn., fund. 1 mekh. grun. 2 no.5:11-12 '60. (MIRA 13:9)
(Boring machinery) (Vibration)

ABELEV, Yu.M., doktor tekhn. nauk, prof.; ABELEV, M.Yu., inzh.;
BAKHOLDIN, B.V., kand. tekhn. nauk; BEREZANTSEV, V.G.,
doktor tekhn. nauk, prof.; VYALOV, S.S., doktor tekhn.
nauk; GODES, E.G., inzh.; GORBUNOV-POSADOV, M.I., doktor
tekhn. nauk, prof.; DALFATOV, B.I., doktor tekhn. nauk,
prof.; DOKUCHAYEV, V.V., kand. tekhn. nauk; KRUTOV, V.I.,
kand. tekhn. nauk; KSENOFONTOV, A.I., kand. tekhn. nauk;
MARIUPOL'SKIY, G.M., kand. tekhn. nauk; MORARESKUL, N.N.,
inzh.; PERLEY, Ye.M., inzh.; SAVINOV, O.A., doktor tekhn.
nauk; SIDOROV, N.N., kand. tekhn. nauk; SMORODINSKIY,
N., kand. tekhn. nauk; SOKOLOV, N.M., doktor tekhn.nauk;
FRADKIN, A.Ya., inzh.; SHASHKOV, S.A., kand. tekhn.nauk;
SNEYKOV, M.L., inzh.; YAROSHENKO, V.A., kand.tekhn.nauk,
[deceased]; KHALIZEV, Ye.P., kand. tekhn. nauk, nauchn.red.

[Manual for the designing of industrial plants, apartment
houses, and public buildings and structures; foundations]
Spravochnik proektirovshchika promyshlennykh, zhilykh i
obshchestvennykh zdanii i sooruzhenii; osnovaniia i funda-
menty. Leningrad, Stroiizdat, 1964. 268 p.

(MIRA 18:1)

BULGARIA / Microbiology. Antibiosis and Symbiosis. F
Antibiotics.

Abs Jour : Ref Zhur - Biologiya, No 5, 1959, No. 19497

Author : Sheykova, G.
Inst : The Republic's Scientific-Research Institute
of Epidemiology and Microbiology

Title : The Study of Antagonistic Properties of
Bact. prodigiosum

Orig Pub : Tr. Respubl. n.-1. in-t epidemiol. i
mikrobiol., 1955, 2, 129-131

Abstract : Prodigiosin exhibits a strong antagonistic
action on diphtheria bacteria, staphylococci
and streptococci. It is recommended to use
Bact. prodigiosum in the control of the
diphtheria carrier.

Card 1/1

TOSHKOV, A., SHEYKOVA, G., SHIPOLINI, R.

Pathogenic effect of penicillin on guinea pigs. Zhur.mikrobiol.
epid. i immun. 29 no.7:45-47 J1 '58 (MIRA 11:8)

1. Iz Nauchno-issledovatel'skogo instituta epidemiologii i mikrobiologii,
Sofia.

(PENICILLIN, effects,
on gastrointestinal microbiol. & fatal dose in guinea
pigs (Rus))

(INTESTINES, microbiology,
eff. of penicillin in guinea pigs (Rus))

TOSHKOV, As.; SHEYKOVA, G.; NOYEVA, K.

Combined use of streptomycin and human gamma-globulin in experimental whooping cough infection in mice. Antibiotiki 5 no.2:67-69 Mr-Ap '60. (MIRA 14:5)

1. Nauchno-issledovatel'skiy institut epidemiologii i mikrobiologii, Sofiya, Bolgariya.

(WHOOPING COUGH) (STREPTOMYCIN)
(GAMMA GLOBULIN)

SHEYKOVA, G.

206

1. "Forty Years Since the Initial Communist Congress of Bulgarian Medical and Sanitation Workers" V. GIMBAROV; pp 1-7.

2. "Pharmacological Forms of Tetracycline Hydrochloride" G. SHEYKOVA and G. VASILEVA (Bulg. Res. Institute, Sofia, P. 206); (English Summary) pp 9-13 (English Summary).

3. "Pharmacodynamics and Toxicology of Allium ursinum" A. ANGILOV; (Department of Pharmacology and Toxicology, Institute of Pharmacy, Sofia); and V. RADOV; (Chairman; Senior Research Assistant A. RADOV); pp 13-21.

4. "Quantitative Determination of Rutin in Paeonyum esculentum" T. LITVANOVA and A. S. RADOV; (Chief of Medical Form Technology and Scientific Methods Faculty of Pharmacy, Sofia Medical Institute); pp 23-25.

5. "Antibacterial, Antiviral, Antitoxic and Cytopathogenic properties of Proctosanin and Anaconin" A. ANGILOV, V. RADOV, V. SUTOVA, T. V. QUINQUA, St. RADOV and G. SHEYKOVA (Endocrinology and Microbiology Research Institute); pp 27-33 (English Summary).

6. "Method for Quantitative Analysis of Freezing Hydrochloride in Novoren Tablets" K. RADOV; (Research Institute for Solid Concentrates, Sofia); (English Summary); Director Prof. St. RADOV; pp 33-35.

7. "Use of Ion Exchange to Determine Acidity of Gastric Fluid" I. DAVIDOV; (Research and S. RADOVA); pp 39-43 (English Summary).

8. "The Hospital Pharmacy" IV. RADOV; (Senior Pharmacist Pharmacy Inspection Office, Ministry of National Health and Sanitation Care); pp 44-49.

* Abbreviation not identified.

1. Kuchno-lab. preparately Institut po farmatsiya.

2. Institut po farmakologiya i toksikologiya.

3. Kuchno-lab. preparately Institut, Sofia's meditsinskih form i lezhdish preparator.

4. Kuchno-lab. preparately Institut po endokrinologiya i mikrobiologiya.

5. Kuchno-lab. preparately Institut za zdravna kultura na lekuvavaniya.

6. Spetsialna inspektatsiya IMZK.

STOYANOV, D.; SHEYKOVA, G.

Pathomorphological changes in white mice treated with tetracycline in different combinations. Antibiotiki 8 no.2:737-740 (MIRA 17:5)
Ag '63.

1. Nauchno-issledovatel'skiy institut epidemiologii i mikrobiologii, Sofiya i Nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut, Sofiya.

SHEYKOVA, G. [Shekova, G.]; GEORGIEVA, I. [Georgieva, I.];
STOYANOV, N. [Stoianov, N.]

Antagonistic properties of actinomycetes isolated from the
rhizosphere of various plants. Mikrobiologiya 34 no.5:871-
875 1965. (MIRA 18:10)

1. Nauchno-issledovatel'skiy khimiko-farmatsiuticheskii
Institut, Sofia, Bulgaria.

SHEYMAN, A. I.

Sheyman, A. I. - "On factors influencing the rupture of the fetus membrane,"
Collection dedicated to the Maternity Hospital im. Snegireva on its 175th
anniversary, Leningrad, 1949, p. 87-92

SO: U-4355, 14 August 53, (Letopis 'Zhurnal 'nykh Statey, No. 15, 1949)

ACC NR: AP6035691 (A, N) SOURCE CODE: UR/0413/66/000/019/0034/0034

INVENTOR: Malkhno, L. P.; Sheykman, A. K.; Kost, A. N.

TITLE: Preparation of 1-(β -pyridylethyl) indoles. Class 12, No. 186484
[announced by Donets Branch of the All-Union Scientific Research Institute of Chemical Reagents and High Purity Chemicals (Donetskiy filial Vsesoyuznogo nauchno-issledovatel'skogo instituta khimicheskikh reaktivov i osobo chistykh khimicheskikh veshchestv)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 19, 1966, 34

TOPIC TAGS: pyridylethylindole, pyridine, indole, hexanol, *aliphatic alcohol, vacuum distillation*ABSTRACT: To simplify the technology of the preparation of 1-(β -pyridylethyl)indoles by boiling vinylpyridines with indoles in solution in the presence of catalysts (metallic K or Na) with subsequent isolation of the final product by a known method (e.g., distillation in vacuo), high-boiling aliphatic alcohols (e.g., hexanol) are used as solvents.[PS]
[WA-50; CBE No. 14]

SUB CODE: 07/ SUBM DATE: 10Jan66

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UDC: 547.753.07

SHEYMAN, A.M., inzh.-mayor

People of an inquisitive mind. Vest.protivovozd.obor. no.2:39-40
F '61. (MIRA 14:2)

(Airplanes—Maintenance and repair)

SHEYMAN, B.M.

Alkylates of aromatic hydrocarbons with boric acid esters.

... with benzene 1 ...
... with toluene and 1 ...
... with xylene (81%)
R. F. FISCHER

PM MT

Moscow State U.

Handwritten initials: P. M.

✓ Esters of boric acid in the Friedel-Crafts reaction. V.
K. A. Kuznetsov, S. M. Shelman, and Z. I. Maksimova (State Univ., Moscow). *Zhur. Obshchei Khim.* 27, 1454-9 (1957).

Esters of boric acid can be used in the Friedel-Crafts form of alkylation of aromatic compounds, such as C_6H_6 , MePh, m-xylene, PhCl, and PhOH. The mixture of $(RO)_2B$ and the aromatic compound is treated at 20-5° with $AlCl_3$ and the mixture heated 0.5-14 hrs. at 45-100°, depending on the reactivity of the substrate. Yields of alkylated products range up to 80-2%, although mainly 40-65% yields are obtained. The esters used included $(EtO)_2B$, $(PrO)_2B$, $(BuO)_2B$, $(iso-BuO)_2B$, $(iso-AmO)_2B$, tris(2-ethylhexyl)borate, $(C_6H_{11}O)_2B$, $(C_6H_{10}O)_2B$, $(PhCH_2O)_2B$, $(CH_2=CHCH_2O)_2B$, $(ClCH_2CH_2O)_2B$, and ethylene glycol borate. The esters were prepared by azeotropic dehydration of ROH and $B(OH)_3$ in C_6H_6 with anhyd. $CuSO_4$. Thus were reported: 36% $(EtO)_2B$, b. 117-20°, d_4^{20} 0.8360, n_D^{20} 1.3775, and tris(2-ethylhexyl)borate, b. 133-5°, d_4^{20} 0.8519, n_D^{20} 1.4385. Heating 0.4 g. $(PrO)_2B$ with 9 g. $AlCl_3$ in 65 ml. $PhNO_2$ 3.5 hrs. at 60-75° gave no HCl or PrCl. While predominantly p-isomers of alkylated products were obtained, the normally expected o-derivatives were also found. Prolonged reaction of C_6H_6 with 3 moles $AlCl_3$ and 1 mole $(EtO)_2Al$ gave 47.2% EtPh and 4.6% Et- C_6H_5 ; $(MeO)_2Al$ or $(PrO)_2Al$ failed to react. O. M. K.

Handwritten notes: 5, 4E4j, 1E3d

Handwritten initials: M

5 (3)

AUTHORS:

Kost, A. N., Sheyman, B. M.,
Terent'yev, A. P.

SOV/79-29-7-45/83

TITLE:

Synthesis With the Aid of the Nitrile of Acrylic Acid (Sintezy s pomoshch'yu nitrila akrilovoy kisloty). XXXIII. Cyanoethylation of n-Cresol (XXXIII. Tsianetilirovaniye n-krezola)

PERIODICAL:

Zhurnal obshchey khimii, 1959, Vol 29, Nr 7, pp 2310 - 2314
(USSR)

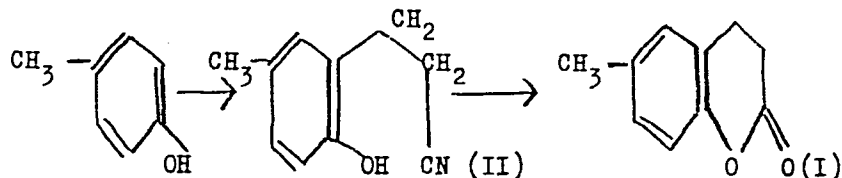
ABSTRACT:

The authors investigated the synthesis of 6-alkylcoumarins, starting with the corresponding n-alkylphenols and acrylonitrile and examined the conditions necessary for the reaction of n-cresol with acrylonitrile in the presence of $AlCl_3$. No reaction took place below 10° . CCl_4 solution had no effect at these temperatures. In nitrobenzene solution $AlCl_3$ caused intense resinification. An equimolar amount of n-cresol and acrylonitrile without a solvent was saturated with HCl and then an equimolar amount of $AlCl_3$ added. After heating the reaction mixture for 1 hour at 80° the yield was 16%. Half of the product separated as 6-methyl-3,4-dihydrocoumarin (I), the other

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Synthesis With the Aid of the Nitrile of Acrylic Acid. XXXIII. Cyanoethylation of *m*-Cresol SOV/79-29-7-45/83

half, a fraction boiling at 128-133° (at 10 mm), was a mixture of equal amounts of (I) and, apparently, (II), which was not obtained in pure state.



The yield did not increase on further heating and addition of more AlCl_3 and acrylonitrile. When heated for a short time to 200° a liquid fraction only was obtained, boiling at 128-133° (at 10 mm). The longer period of reaction therefore leads to lactone (I). When propionitrile was used instead of acrylonitrile, molar proportions of the components being maintained, the yield of lactone (I) rose to 41.4% and 4.3% of nitrile (II) were obtained. The melting point of (I) differs from that given in publications. The compound (I) synthesized by the authors -

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- Synthesis With the Aid of the Nitrile of Acrylic SOV/79-29-7-45/83
Acid. XXXIII. Cyanoethylation of n-Cresol

contrary to the results given in reference 6 - exhibits typical
properties of 3,4-dihydrocoumarin (Scheme 2 with interpretation).
There are 11 references, 4 of which are Soviet.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet (Moscow State University)

SUBMITTED: June 18, 1958

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S/153/60/003/005/006/016
B013/B058

AUTHORS: Sheyman, B. M., Kuskov, V. K.

TITLE: Synthesis of Alkyl Phenols From Boric Acid Esters by Means of the Friedel - Crafts Reaction

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimicheskaya tekhnologiya, 1960, Vol. 3, No. 5, pp. 876-880

TEXT: Two methods of producing alkyl phenols are proposed in this paper: in the first place, production from symmetrical boric acid esters, in the second place, through previous production of mixed boric acid esters. In the first case, the triphenylborate was alkylated with trialkyl borates in the presence of aluminum chloride. In the second case, alkyl aryl borates were treated with aluminum chloride, and subsequently hydrolyzed. Mixed boric acid esters were obtained, like symmetrical esters (Ref. 16), by means of esterification of an alcohol phenol mixture and dehydrogenation, or by means of partial interchange of ester radicals of trialkyl borate with phenol in the presence of sodium phenolate, and distilling-off of the resulting alcohol. A pure preparation of the mixed boric acid esters was

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Synthesis of Alkyl Phenols From Boric
Acid Esters by Means of the
Friedel - Crafts Reaction

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not possible since they become symmetrical during distillation. This corresponds to the data of Ref. 17. The yields are higher when applying the second method. Thus, the experiments conducted under equal conditions for butyl phenols yielded 67% by the first method, and 89% by the second method. This may be due to the fact that mixed boric acid esters were present in the second case, with which the reaction may also take the course of a regrouping. As customary, the phenols were isolated with the aid of 10% NaOH (Refs. 3-5). The effect of temperature, amount of aluminum chloride, and length of the reaction, was studied by the example of n-butyl diphenyl borate. The highest yields were obtained at a duration of the experiment of 15 minutes at 80° - 95°C, using 1.3 moles of aluminum chloride per 1 mole of mixed boric acid esters. The yield of secondary butyl phenols was about 98% (77% mono- and 21% dibutyl phenol). From the mixture of the resulting o- and p-alkyl phenols, pure isomers were isolated by means of distillation. Ordinary isomerization of the alkyl group occurs under experimental conditions during alkylation. Only from the reaction of n-propyl diphenyl borate with aluminum chloride, an isomeric mixture was obtained, which consisted, on the basis of the melting points determined, of n- and

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Synthesis of Alkyl Phenols From Boric
Acid Esters by Means of the
Friedel - Crafts Reaction

S/153/60/003/005/006/016
B013/B058

isopropyl phenols. It was established that all resulting alkyl phenols only contained phenol compounds. There are 27 references: 18 Soviet, 6 US, 2 British and 2 German.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im.M.V. Lomonosova,
Kafedra khimicheskoy tekhnologii (Moscow State University
imeni M.V. Lomonosov, Department of Chemical Technology)

SUBMITTED: January 19, 1959

Card 3/3

SHEYMAN, B.M.; KOST, A.N.

Cyanoethylation of the nucleus of *p*-alkyphenols. Vest. Mosk. un.
Ser. 2: Khim. 15 no.5:65-68 S-0 '60. (MIRA 13:11)

1. Moskovskiy gosudarstvennyy universitet, kafedra khimicheskoy
tekhnologii i organicheskoy khimii.
(Phenols) (Cyanoethylation)

KOST, A.N.; SHEYMAN, B.M.; KUSHKOV, V.K.

Esters of ethylene cyanohydrin in the Friedel-Krafts reaction.
Izv.vys.ucheb.zav.; khim.i khim.tekh.. 4 no.1:87-91 '61.

(IRA 14:6)

1. Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova,
kafedra organicheskoy khimicheskoy tekhnologii.
(Friedel-Krafts reaction) (Hydracrylonitrile)

KOST, A.N.; BRAGINA, K.K.; SHEYMAN, B.M.

Derivatives of melilotic and phloretic acids and their effect on the growth of plants. Vest. Mosk. un. Ser. 6: Biol., pochv. 17 no.5:34-41 S-0 '62. (MIRA 15:11)

1. Botanicheskiy sad i kafedra organicheskoy khimii Moskovskogo universiteta.

(Hydrocinnamic acid)
(Growth promoting substances)

KOST, A.N.; SHEYMAN, B.M.

Synthesis of α -(2-hydroxy-5-alkylphenyl) propylamines. Zhur.
ob.khim. 33 no.2:545-549 F '63. (MIRA 16:2)

1. Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova.
(Propylamine) (Benzene derivatives)

SHAYKH, B.N.; MOST, A.N.; DENISOVA, L.Ya.; ZHURBILIS, V.Ye.

Synthesis of amides and hydrazides of β -(2-methoxy(hydroxy)-
3-alkylphenyl)propionic acids. Vest. Mosk. un. Ser. 2: Khim.
20 no.1:42-45 Ja-F '65. (MIRA 18:3)

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Motion of material in a vertical gas flow. Inzh.-fiz.zhur. 6
no.3:63-68 Mr '63. (MIRA 16:4)

1. Institut teplo- i massobmena AN BSSR, Minsk.
(Drying apparatus) (Gas flow)

ACC NR: AP7002918

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SOURCE CODE: UR/0170/66/011/006/0787/0796

AUTHORS: Sheyman, V. A.; Tutova, E. G.

ORG: Institute of Heat and Mass Transfer, AN BSSR, Minsk (Institut teplo- i massoobmena AN BSSR)

TITLE: Calculation of the heat-transfer process in three-component systems

SOURCE: Inzhenerno-fizicheskiy zhurnal, v. 11, no. 6, 1966, 787-796

TOPIC TAGS: heat transfer, heat transfer coefficient, heat transfer fluid, heat loss, boundary value problem, inverse problem, temperature

ABSTRACT: A method for calculating heat transfer in systems with three heat-transfer agents of variable heat-transfer coefficients and surfaces is proposed (see Fig. 1). For this system, the equations for gradientless particle heating are:

$$dt' = -\frac{\alpha_2}{W_1} (t' - t) dF_2 - \frac{\alpha_2}{W_1} (t' - t''') dF_3,$$

$$dt'' = \frac{\alpha_2}{W_2} (t' - t) dF_2,$$

$$dt''' = \mp \frac{\alpha_2}{W_3} (t' - t''') dF_3.$$

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UDC: 536.248

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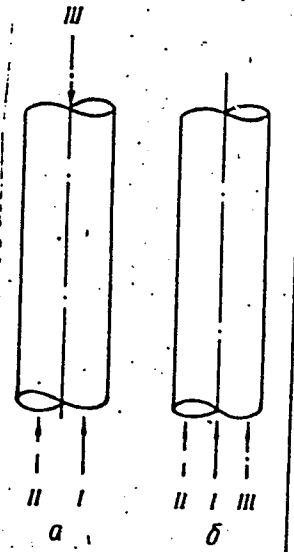


Fig. 1. Motion of heat-transfer agents: I - gas; II - fine dispersed materials; III - large particles

The heat-transfer coefficients vary with the x coordinate as:

$$\alpha_1 = \alpha_{1n} \exp(-c_1 F_1), \quad \alpha_2 = \alpha_{2n} \exp(-c_2 F_2).$$

The heat-transfer surfaces vary with the x coordinate as: $F_3 = bF_2$. The temperatures of heat-transfer agents I, II, and III (gas, fine dispersed materials, and large

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particles) are determined by the equations:

$$\theta^* = C_1 \sum_{n=0}^{\infty} s_n^{(1)} \frac{X^{n+1}}{n+1} + C_2 \sum_{n=0}^{\infty} s_n^{(2)} \frac{X^{n+1}}{n+1} + C_3$$

$$\theta' = \theta^* + YR_{21} \exp(c_4 X),$$

and

$$\theta''' = \theta' + \frac{1}{\beta} \exp(c_5 X) \frac{d\theta'}{dX} + \frac{1}{\beta} \exp[(c_5 - c_4) X] (\theta' - \theta^*).$$

Heat transfer between two agents is discussed. The possibility of an inverse problem is also mentioned. Orig. art. has: 54 formulas and 1 diagram.

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Card 3/3

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