

MONAKHOV, G.A.

The 6F10K copying vertical milling machine. *Biul.tekh.-ekon.inform.*
no.5:24-25 '60. (MIRA 14:3)

(Milling machines)

MONAKHOV, G.A.

More attention to suggestions for improvements and inventions.
Zdrav. Bel. 7 no.8:50-51 Ag '61. (MIHA 15:2)

I. Sekretar' Soveta izobretateley i ratsionalizatorov Ministerstva
sdravookhraneniya BSSR
(INVENTIONS) (SUGGESTION SYSTEMS)

AYZENSHTADT, L.A.; FEN'KOV, P.M.; GLADKOV, B.A.; LIKHT, L.O.;
KRUMMER, T.Ye.; KASHEPAV, M.Ya., kand. tekhn. nauk;
MERPERT, M.P., kand. tekhn. nauk; KOPERBAKH, B.L.;
CHERNIKOV, S.S., kand. tekhn.nauk; BELOV, V.S.; ZHURIN,
B.F.; MONAKHOV, G.A., kand.tekhn.nauk; MOROZOV, I.I.;
MUSHTAYEV, A.F.; OGNEV, N.N.; PALEY, M.B., kand. tekhn.
nauk; FURMAN, D.B.; LIVSHITS, A.L., kand.tekhn.nauk;MECHETNER,
B.Kh.;SOSENKO,A.B;ANDULOV, A.N.; LEVIN, A.A., kand.tekhn.
nauk; YAKOBSON, M.O., doktor tekhn.nauk; MAYOROVA, E.A.,
kand.tekhn.nauk; MOROZOVA, Ye.M.; ZUSMAN, V.G., kand.tekhn.
nauk; KAYDIS, V.A., kand.tekhn.nauk; VLADZIYEVSKIY, A.P., prof.,
doktor tekhn. nauk, red.; BELOGUR-YASNOVSKAYA, R.I., red.;
CHIGAREVA, E.I., red.; ASVAL'DOV, M.Ya., red.; KOGAN, F.L.,
tekhn. red.

[Machine-tool industry in capitalist countries] Stanko-
stroenie v kapitalisticheskikh stranakh. Pod red. i s pre-
disl. A.P.Vladzjevskogo. Moskva, 1962. 822 p. (MIRA 15:7)

1. Moscow. ISentral'nyy institut nauchno-tekhnicheskoy in-
formatsii mashinostroyeniya. 2. Eksperimental'nyy nauchno-
issledovatel'skiy institut metallorazhreshchikh stankov
(for Vladziyevskiy, Belogur-Yasnovskaya, Chigareva, Asval'dov,
Kogan).

(Machine-tool industry)

MONAKHOV, G.A.

Universal and copying-milling machines and program controlled
machine tools. *Biul.tekh.-ekon.inform.Gos.nauch.-issl.inst.nauch.f*
tekh.inform. 16 no.4:31-34 '63. (MIRA 16:8)
(Milling machines--Numerical control)

MONAKHOV, C.A.; CHERNIKOV, S.S.

Electric contact servosystem with an automatic regulation of
the direction of resulting feed. Stan. i instr. 35 no. 4:
3-7 Ap '64. (MIRA 17:5)

MONAKHOV, G.A.; SHTOL', Yu.I.

The 6440 all-purpose copying milling machine. Biol. tekhn.-ekon.
inform. Gos. nauch.-issl. inst. nauch. i tekhn. inform. 18 no.2:
35-37 F '65. (MIRA 18:5)

KLYAMKO, N.I.; MOMAKHOV, G.D.

Method for speeding up binary division done on digital computing
machines. Priberestrenie no.2:9-11 F '57. (MIRA 10:4)
(Calculating machines)

UNESCO/NS/ICTP/ABSTRACT/E.2.5.

MONAKHOV, G. D.

METHODS OF SPEEDING-UP THE OPERATION OF DIGITAL COMPUTERS

I.Y. AKUSHSKIY, L.B. YEMELYANOV-TAROSLAVSKIY, E.A. KRYAKO
V.S. LINSKY, G.D. MONAKHOV

Institute for Scientific Research of Electronic
Mathematical Machines, Moscow, USSR.

In the paper are considered different methods of speeding-up operations in digital computers.

Methods of accelerating the digit by digit multiplication by overlapping in time the operations of addition and shift; the method of the "travelling wave" when the addition of several partial products is effected simultaneously, etc.

For speeding-up the division operation a method is recommended by which the information contained in the code of the next remainder is used for determining in one step the group of the quotient consecutive digits.

Are considered the advantages, from the point of view of operation speeding-up, of storage of codes in not normalized condition and representation of negative numbers in the machine in reverse code (with introduction of code feature). Combined methods of calculation of certain algebraic expressions in the conditions of an arithmetic device with an increased number of components.

Methods are described for speeding-up the addition elementary operation, which ensure single-shot operation of each component of the add circuit, as well as the methods of speeding up the group shift by means of a special shifter designed in the form of a ferrite matrix.

Considerations are given on the expediency of including the calculations of the values of elementary functions in the list of main machine operations, and some algorithms are given (which are adaptable for their circuit execution by the arithmetic device), on

Paper presented at Intl. Conf. on Information Processing, UNESCO House, Paris, 15-20 Jul 59.

the basis of which these values are formed of the operations of addition and group shift.
The role of microprogram control for accelerating operations is discussed. In particular, at microprogram control, when a single-sided high-speed large capacity memory is used, it seems possible to obtain efficient results by calculating the elementary function values on the basis of block-poly-nomial approximation of functions by different polynomials at various intervals.

PAPER PRESENTED AT
INTERNATIONAL CONF. ON INFORMATION PROCESSING
UNESCO HOUSE, PARIS
15 - 20 JUNE 1959

ZHURAVLEV, M.S., kand. sel'khoz. nauk; KOVALEV, N.V., kand. sel'khoz. nauk; MONAKHOV, G.V.; MUKHAMEDOV, G.K.; TATAUROVA, A.S.; TUZ, A.S.; TUFITSYN, D.I.; FROLOV, A.I.; VYSOTSKIY, K.A., kand. sel'khoz. nauk, red.; PAVLOVA, N.M., doktor mol. nauk, red.; KUL'TISOV, N.V., kand. sel'khoz. nauk, red.; FYLAYEVA, L.N., red.; SOROKINA, Z.I., tekhn. red.

[Catalog of the prospective varieties of fruit, berry, and grape crops in the collection of the Central Asia Experiment Station of the All-Union Institute of Plant Culture] Katalog perspektivnykh sortov plodovoiagodnykh kul'tur i vinograda v kollekcii Sredneaziatskoi opytnoi stantsii. Tashkent, Vses. nauchno-issl. in-t rasteniievodstva, 1961. 123 p. (MIRA 16:12)

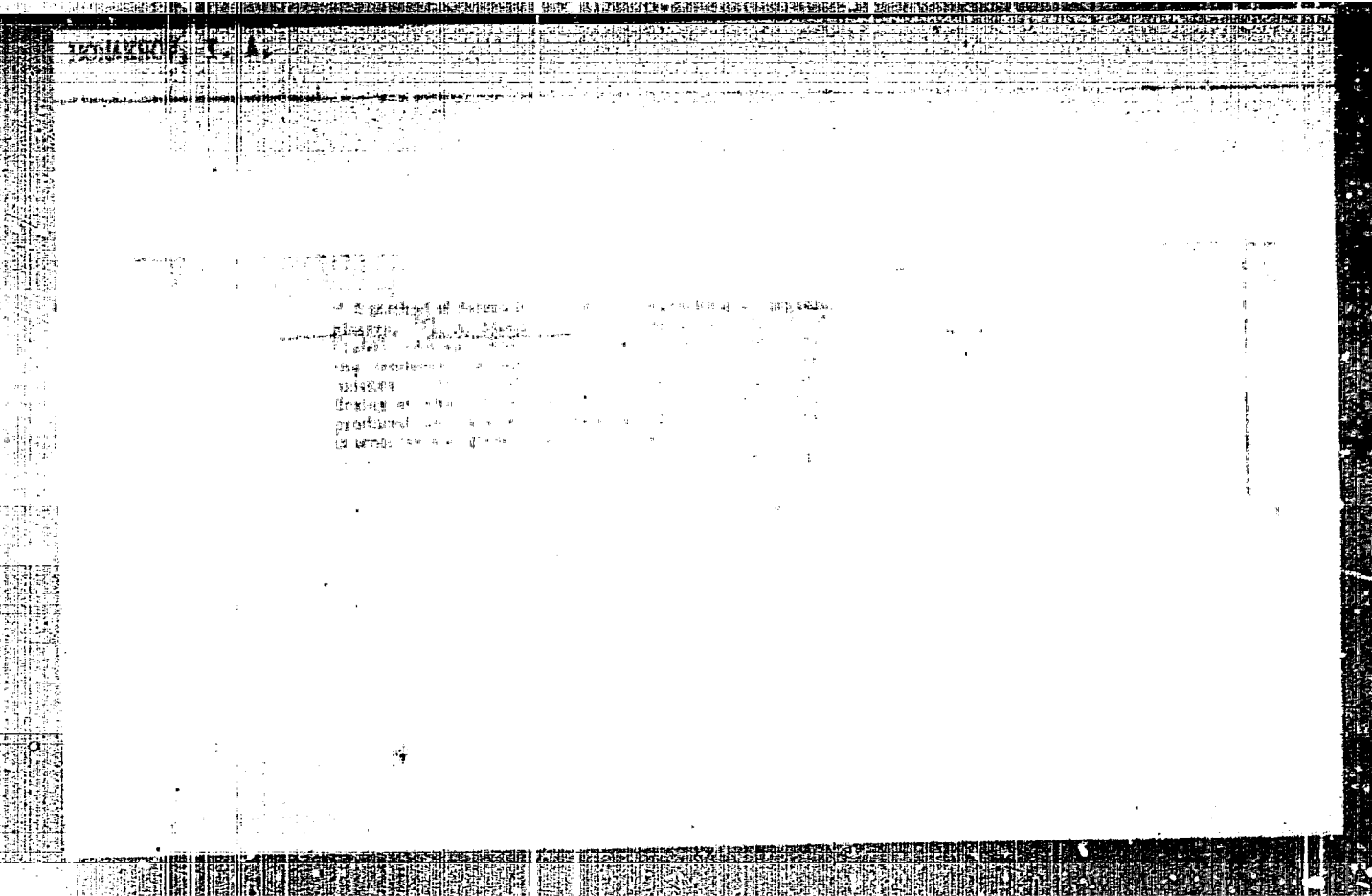
1. Sredneaziatskaya opytная stantsiya.
(Soviet Central Asia—Fruit—Varieties)

МОНАХИЧ, И. А.

36232

Usovershenstvovaniye metoda ispytaniya tkani na rastyazheniye. Za odeskaya laboratoriya, 1949, No. 11, s. 1390-94

SO: Letopis' Zhurnal'nykh Statev, No. 49, 1949



MONAGOV, I.A. (auth.)

Method of fabric testing for biaxial stretching. Tekst. prom.
25 no.3:65-69 Mr '65. (MIRA 18:5)

DUBINSKIY, P.F., prof., doktor tekhn. nauk; ANDREYEV, B.K.; KUT'INOV, F.I.;
MONAKHOV, I.G.; FISHCHUKOV, M.A.; CHEKRYAKOV, L.M.; SHAERINA, G.N.;
GRINOVSKIY, I.A., inzh., red.; KHITROV, P.A., tekhn. red.

[Construction work and machines] Stroitel'nye raboty i mashiny.
Pod red. P.F. Dubinskogo. Moskva, Gos. transp. shel-dor. izd-vo,
1958. 540 p. (MIRA 11110)

(Railroads—Construction)

MEMORANDUM F-6
DUBINSKIY, P.F., doktor tekhn.nauk; ANDREYEV, B.K., kand.tekhn.nauk;
MONAKHOV, I.G., kand.tekhn.nauk; FISHCHUKOV, M.A., kand.tekhn.nauk;
CHERNYAKOV, L.N., kand.tekhn.nauk; SHADRINA, G.N., kand.tekhn.nauk;
KOKIN, M.V., inzh.

The over-all mechanization of assembling apartment houses. Transp.
strof. 9 no.6:13-17 Je '59. (MIRA 12:11)
(Building machinery) (Apartment houses)

DUBINSKIY, P.F., doktor tekhn.nauk; ANDREYEV, B.K., kand.tekhn.nauk;
MONAKHOV, I.G., kand.tekhn.nauk; FISCHUKOV, M.A., kand.tekhn.
nauk; CHERNYAKOV, L.M., kand.tekhn.nauk; SHADRINA, S.W., kand.tekhn.
nauk.

The over-all mechanisation of assembly operations in
building large-panel apartment houses. Transp.stroi.
IO no.8:31-36 Ag '60. (MIRA 1318)
(Apartment houses)
(Cranes, derricks, etc.)

HONAKHOV, I.G., kand.tekhn.nauk, dotsent

Study of the engineering and economic indices of erecting cranes
during the construction of five-story larg. -panel apartment houses.
Trudy MIIT no.192:24-31 '65. (MIRA 18:5)

Monakhov, I. I.

137-1958-2-2723

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 2, p 75 (USSR)

AUTHORS: Khazov, V. A., Ignat'yev, Yu. A., Monakhov, I. I.

TITLE: A Semiautomatic Process of Pressing Ceramet Pieces in Single-section and Multisection Dies (Poluavtomaticheskii protsess pressovaniya metallokeramicheskikh detaley v odnognezdnykh i mnogognezdnykh press-formakh)

PERIODICAL: V sb.: Poroshkovaya metallurgiya. Nr 4, Moscow, 1956, pp 63-68

ABSTRACT: Experience with automatic and semiautomatic dies for pressing pieces from powdered metals (bushings et al.) at a number of machine-building plants [the STZ (Stalingrad Tractor Plant), IGPZ (State Locomotive Plant No. 1), the Tashsel'mash (Tashkent Agricultural Machinery Plant), et al.] has revealed that the use of these dies increases the efficiency of the presses and affords cost advantages. Using semiautomatic multisection dies on existing universal presses was no less economical than using the available automatic presses.

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I. B.

1. Ceramics--Pressing--Processes

L 46671-66 ENT(a)/EWT(m)/ENP(c)/ENP(k)/T/ENP(e)/ENP(f)/ENP(v)/ENP(t)/ENP(l)/EII/
ACC NR: AP6000581 SOURCE CODE: UR/0226/65/000/011/0094/0101
EXP(h) LJP(c) JB

5052
B

AUTHOR: Monakhov, I. L.; Bogatin, D. Ye.

ORG: Moscow Powder Metallurgy Plant (Moskovskiy zavod poroshkovoy metallurgii)

TITLE: Production of metal-powder machine parts at the Moscow Powder Metallurgy Plant

SOURCE: Poroshkovaya metallurgiya, no. 11, 1965, 94-101

TOPIC TAGS: muffle furnace, continuous furnace, metal powder, iron powder, powder metallurgy, industrial plant / OB-126 muffle furnace, OB-51 continuous furnace

ABSTRACT: The Moscow Powder Metallurgy Plant has, since its establishment in 1959, been increasing its output at a steep pace: from 6.5 tons in 1959 to 1000 tons (planned) in 1965 and 1500 tons (planned) in 1966. Fig. 1 illustrates the principal parts manufactured by this plant. Currently, the plant has introduced the production of iron-base parts on using iron powder that is additionally reduced at 750°C in OB-51 type continuous furnaces designed and built by the plant itself. Zinc stearate is used as the plasticizing agent. The plant employs 63-, 100-, 160-, 250-, 315-, 500- and 1000-ton hydraulic presses as well as 3-, 25-, 63- and 100-ton automatic mechanical presses. The powder-metal parts are pressed in spring-loaded com-

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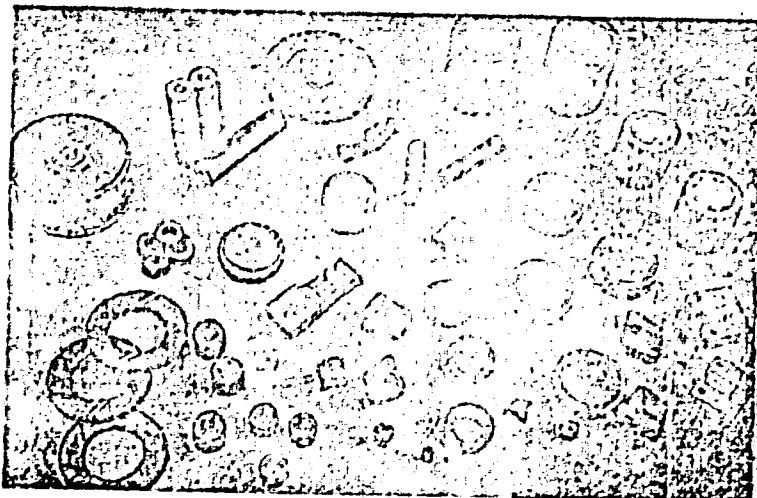


Fig. 1. Typical powder-metal parts fabricated by the Moscow Powder Metallurgy Plant

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pression molds and sintered at 1130°C in OB-126 type muffle furnaces, also designed by the plant (Fig. 2), in an endothermic-gas atmosphere. Quality control at this plant is a special

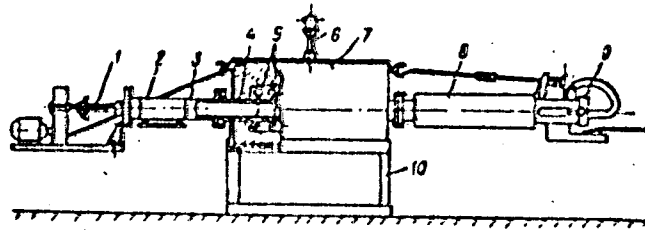


Fig. 2. OB-126 muffle furnace:

- 1 - screw pusher; 2 - charging door; 3 - charging pipe;
- 4 - muffle; 5 - silit heaters; 6 TPP-P thermocouple;
- 7 - housing; 8 - discharge cylinder; 10 - pedestal

problem in view of the low quality of the iron powder produced by industry. This requires 100% dimensional checking of the fabricated parts, which increases the labor requirement and

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ACC NR: AP6009581

3
production cost. At present, in addition to iron powder, the plant also uses the powders of copper, graphite, sulfur, zinc stearate, tin, tungsten, silicon, and chromium, which are supplied to it by other metallurgical enterprises. Production cost at the plant is still high: 1529 rubles per ton of powder-metal parts fabricated from iron and bronze-graphite), and the plant is currently undergoing an extensive modernization which will greatly expand its capacity. The principal customers of this plant are: the Moscow Low-Displacement Motor Vehicle Plant (100 tons/year), the Motor Vehicle Plant imeni Likhachev (32 tons/year) and the Moscow Dynamo Plant (60 tons/year). In 1964 the plant produced 10.5 million parts for 200 different purposes (washers, bushings, rings, etc.). Orig. art. has: 5 figures, 2 tables.

SUB CODE: 13, 11/ SUBM DATE: 08Feb65/ ORIG REF: 001/

Card 4/4 hs

~~MOZAKHOV, I.K.~~, inzh., starshiy dorozhnyy master (st. Orekhovo Gor'kovskoy dorogi)

Strengthening of bolt fastenings. Put' i put. khoz. no.9:14-15
8 '58. (MIRA 11:9)
(Railroads--Rails--Fastenings) (Railroads--Switches)

MOTAKHOV, K. K.: Master Med Sci (diss) -- "Aspects of higher nervous activity in the neurosis of obsessive states with the skatolophobic syndrome". Moscow, 1958. 16 pp (Acad Sci USSR, Inst of Higher Nervous Activity), 120 copies (IL, No 5, 1959, 157)

MONAKHOV, K.K.

Some features of the higher nervous activity in obsessional
neurosis with a cardiophobic syndrome and manifestations of
functional impairment of cardiovascular activity. Trudy Inst.
vys.nerv. defiat. Ser. patofiziol. 5:250-269 '58 (MIRA 11:12)
(OBSESSIONS)
(CONDITIONED RESPONSE)
(CARDIOVASCULAR SYSTEM)

MORAKHOV, K.K.; D'YAKOV, V.L.

Electrodes for multichannel registration of biocurrents of the brain.
Zhur.nevr. i psikh. 59 no.8:1010-1014 '59. (MIRA 12:12)

1. Laboratoriya elektroentsefalografii (sav. - prof. M.N. Livanov)
Instituta vysshey nervnoy deyatel'nosti AN SSSR i kafedra psikhatrii
(sav. - prof. A.V. Shashnevskiy) Tsentral'nogo instituta usovershenat-
vovaniya vrachey, Moskva.
(BRAIN physiol.)

MONAKHOV, K.K.

Spatial distribution of bioelectric activity in the cerebral cortex
of man and animals. *Biul. eksp. biol. i med.* 50 no.10:23-28 0 '60.
(MIRA 14:5)

1. Iz laboratorii elektroentsfalografii (zav. - prof. M.N.Livanov)
Instituta vysshey nervnoy deyatel'nosti (dir. - chlen-korrespondent
AMN SSSR V.S.Rusinov) AN SSSR, Moskva. Predstavlena deystvitel'ny
chlenom AMN SSSR V.V.Parinym.
(ELECTROENCEPHALOGRAPHY)

MONAKHOV, K.K.

"Transfusions" as a specific form of spatial distribution of electric activity in the cerebral cortex. Trudy Inst. vys. nerv. deiat. Ser. fiziol. 6:279-291 '61. (MIRA 14:12)

1. Iz Laboratorii elektrofiziologii uslovnnykh refleksov, zav. - M.N. Livanov.

(CEREBRAL CORTIX)

(ELECTROPHYSIOLOGY)

MONAKHOV, K.K.; FIFKOVA, E.; BURES, J.

Vertical distribution of the slow potential change of spreading depression in the cerebral cortex of the rat. *Physiol. Bohemoslov.* 11 no.4:269-276 '62.

1. Institute of Physiology, Czechoslovak Academy of Sciences, Prague;
Institute of Higher Nervous Activity, USSR Academy of Sciences, Moscow.
(CEREBRAL CORTEX)

MONAKHOV, K.K.; LOGINOV, V.I.

Attachment for the electroencephalograph for registering the constant component of the electrical activity of the human and animal brain. Biul. eksp. biol. i med. 53 no. 6: 96-99 Je '62.

(MIRA 15:10)

1. Iz laboratorii elektroentsefalografii (nauchnyy rukovoditel' - prof. M.N. Livanov) Instituta vysshey nervnoy deyatel'nosti i neyrofiziologii (dir. - chlen-korrespondent AMN SSSR V.V. Parinym).
(ELECTROENCEPHALOGRAPHY--EQUIPMENT AND SUPPLIES)

MONAKHOV, K.K.

Mechanism of spatial synchronization of the bioelectric activity
in the cerebral cortex. Zhur.nevr. i psikh. 63 no.12:1835-1841 '63.
(MIRA 18:1)

1. Laboratoriya elektroentsefalografii (zav. - prof. M.N.Livanov)
Instituta vysshey nervnoy deyatel'nosti (direktor - prof. E.A.
Asratyan) AN SSSR, laboratoriya neyrofizilogii (zav. - kand.med.
nauk K.K.Monakhov) Instituta psikhiatrii AMN SSSR, Moskva.

BR/0216/83/000/004/0504/0591
591.1

28
B

AUTHOR: Mal'kin, V. B.; Anyamolova, I. M.; Izraelov, G. V.; Monastov, K. K.

The bioelectrical activity of the isolated cortex of the cerebral cortex of rabbits during acute hypoxia.

NOTE: AN BERR. Izvestiya Akademiya Nauk SSSR Seriya Biologicheskaya, 1981, No. 10, p. 1591.

KEYWORDS: Bioelectrical activity, acute hypoxia, cerebral cortex, humoral effect, neural isolation

ABSTRACT: Experiments on the bioelectrical activity of the cortex during the development of hypoxia were conducted with an isolated cortical section in order to exclude afferent influences and retain humoral ones. Twelve adult rabbits were used. In all animals, only one type of bioelectrical activity was observed, which was recorded in the first 10-15 minutes of hypoxia. The amplitude of the bioelectrical activity increased with a decrease in the partial pressure of oxygen in the inspired air. The bioelectrical activity was recorded in the isolated cortex of the cerebral cortex of rabbits during acute hypoxia. The bioelectrical activity was recorded in the isolated cortex of the cerebral cortex of rabbits during acute hypoxia. The bioelectrical activity was recorded in the isolated cortex of the cerebral cortex of rabbits during acute hypoxia.

L. 60287-65

ACCESSION NO: AP5017767

When they rapidly "ascended" to 12,000 m. The animals were kept at this altitude until the bioelectrical activity of the brain had been completely suppressed, after which conditions were rapidly reestablished. In the first series of experiments, it was found that spontaneous bioelectrical activity was retained in the cortical section 2-3 hr after isolation, which was considerably longer than in previous experiments. In the altitude chamber, development of bioelectrical activity developed almost simultaneously in the cerebral cortex and in the isolated cortical section. The intensity of bioelectrical activity in the isolated cortical section was significantly lower than in the cerebral cortex. The intensity of bioelectrical activity in the cerebral cortex was significantly higher than in the isolated cortical section. The intensity of bioelectrical activity in the cerebral cortex was significantly higher than in the isolated cortical section. The intensity of bioelectrical activity in the cerebral cortex was significantly higher than in the isolated cortical section.

stimulation; the increase in excitability takes place earlier during the gradual development of hypoxia (at 2000 m). Changes in bioelectrical activity are thus not connected with a direct hypoxia, as had been previously suggested. It was concluded that hypoxia in conditions of neural isolation has a direct stimulating effect on cells of the cerebral cortex, which is transmitted along humeral pathways. This stimulating effect begins to show in the isolated cortical section at comparatively low altitudes, while there are still no stable changes of bioelectrical activity in the cerebral cortex. A period of 2-3 hours after isolation of the cerebral cortex the intensification of spontaneous activity in the isolated cortical section is observed. The maximum increase in bioelectrical activity and of spontaneous activity in the isolated cortical section corresponds to the beginning of the phase of synchronous slow waves in the cerebral cortex.

L-10117-62

ACQUISITION NR: AP5017767

sex of the intact hemisphere. At comparatively high altitudes (11,000—12,000 m),
a sharp drop in the excitability of the isolated cerebral cortex is observed with the simult-
aneous disappearance of spontaneous electrical activity. The EEG has 3 fig-
ures and 1 table. [JS]

CHARACTER: none

REGISTERED: 00

REF:

EXPIRE: 12

APR 1954: 004

CLASS: 12

ATL PRESS 4058



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Card 3/3

MONAKHOV, E.K.

Study of the systemic activity of the brain in schizophrenics.
Zhur. nevr. i psikh. 65 no.12:1865-1871 '65.

(MIPA 19:1)

1. Laboratoriya neyrofiziologii Instituta psikiatrii AN SSSR,
Moskva. Submitted October 19, 1964.

МОХАКHOV, K.Ye.

Apparatus with pulse light sources. *Usp.nauch.fot.* 6:200 '59.
(Stroboscopy) (MIRA 13:6)
(Photography--Lighting)

2

KOKIN, M.V., kand. tekhn. nauk; MONAKHOV, I.G., kand. tekhn. nauk; CHERNYAKOV,
L.M., kand. tekhn. nauk; SHADRINA, G.M., kand. tekhn. nauk

Selecting cranes to assemble large-panel industrial buildings.
Transp. stroi. 14 no.11:30-32 N '64. (MIRA 18:3)

KORAKHOV, M., kapitan tekhn. sluzhby

How to test the H-116 radio station. Voenn. svjaz. 16 no. 3:35-36
(MIRA 11:4)

(Radio stations--Testing)

МОХАКХОВ, М.П.

Plan of the development of structures in the platform cover of the central part of the Tschora Valley. Geol. nefti i gaza 9 no. 9:4/-55 S '65. (MIRA 19:9)

1. Vsesoyuznyy neftyanoy nauchno-issledovatel'skiy geologorazvedochnyy institut, Leningrad.

MONAKHOV, M.P.

First find of phosphorites in the Arctic part of the West
Siberian Plain. Dokl. AN SSSR 150 no.2:369-371 My '63.
(MIRA 16:5)

ИИ Всесоюзный нефтяной научно-исследовательский
геологоразведочный институт.
(West Siberian Plain--Phosphorites)

MONAKHOV, N., agronom

Increase in knowledge is required by our time. N^o 5 no.6:34-36
Ja '63. (MIRA 16:9)

1. ^Udirektor Instituta usovershenstvovaniya znaniy spetsialistov
sel'skogo khozyaystva pri Tsentral'nom pravlenii Nauchno-tekhni-
cheskikh obshchestv sel'skogo khozyaystva.

MORIAKHOV, N.

Subject index of articles published in the periodical "Vestnik
dermatologii i venerologii" in 1963. Vest. dermat. i ven. 37
no.12:82 D '63 (MIRA 18:1)

Handwritten:
MONAKHOV, N., brigadir.

Economical storehouses. Sel'.strof. 12 no.9:14 S '57. (MIRA 10:10)

1. Stroitel'naya brigada kolchoza "Bol'shevik" Leninskogo rayona,
Moskovskoy oblasti.
(Warehouses)

~~МОЖАКОВ, Е. Д.~~

Collective farm plant for manufacturing wall blocks. Sel'.strof. ll
no.6:3-4 Je '56. (MIRA 9:9)

1. Brigadir stroitel'ney brigady kolkhosa "Bel'shevik" Leninskogo
rayona Moskovskoy oblasti.
(Building blocks)

monografiya

BELYAYEV, B.M.; ALEKSANDRIN, I.P.; BELYAVSKIY, L.A.; KACHURIN, V.K.; KIP-
NIS, Ya.I.; KOZHEVNIKOV, I.A.; MONAKHOV, N.I.; MOROZOV, S.M.; MORO-
ZOV, Yu.N.; STEPKIN, S.A.; FIGURENOV, N.M.; KACHURIN, V.K., redaktor;
SNITKO, I.K., redaktor; GAVRILOV, S.S., tekhnicheskiy redaktor.

[Laboratory testing of the strength of materials] Laboratornye raboty
po soprotivleniyu materialov. Izd. 5-e, perer. Moskva, Gos. izd-vo
tekhniko-teoret. lit-ry, 1954. 286 p. (MLRA 7:12)
(Materials--Testing) (Metals--Testing) (Strength of materials)

MONAKHOV, N.I., kandidat tekhnicheskikh nauk, dotsent

~~Some indirect methods of determining the mechanical characteristics~~
of rail steel. Sbor. LIIZHT no.148:123-133 '55. (MLBA 8:10)
(Railroads--Rails)

MONAKHOV, N.I., etv. za vypusk; DERJABIN, N.I., inzh., red.; TYUREMNOV,
I.S., inzh., red.; KLIMOVA, G.D., red. izd-va; NAUMOVA, G.D., tekhn.
red.

[Collection No.4 of consolidated indices of the cost of water supply structures for revaluations capital assets] Sbornik no.4. ukрупnennykh pokazatelei stoimosti vodokhoziaistvennykh sooruzhenii dlia perechtsenki osnovnykh fondov. Uтверzhen Gosudarstvennym komitetom Soveta Ministrov SSSR po delam stroitel'stva 11 ianvaria 1961 g. Moskva, Gos. izd-vo lit-ry po delam stroit., arkhit. i stroit. materialam, 1961. 223 p. (MIRA 14:9)

1. Russia (1923- U.S.S.R.) Gosudarstvennyi komitet po delam stroitel'stva.

(Water supply engineering)

MONAKHOV, N.I., otv. za vypusk; GUR'YASHKIN, P.I., red.; RUDAKOVA, N.I.,
tekhn. red.

[Collection no.2 of consolidated cost indices for residential public,
and administrative buildings and structures for revalnating capital
assets on collective farms] Sbornik no.2 ukрупnennykh pokazatelei
stoimosti shilykh, kul'turno-bytovykh i administrativno-khoziaistven-
nykh zdani i sooruzhenii dlia pereotsenki osnovnykh fondov v kolkho-
zakh. Moskva, Gos. izd-vo litery po stroit., arkhit. i stroit. mate-
rialam, 1961. 224 p. (MIRA 14:8)

1. Russia(1923- U.S.S.R.) Gosudarstvennyi komitet po delam stroitel'
stva.

(Farm buildings—Costs)

MONAKHOV, N.I., inzh., otv. za vypusk; GUR'YASHKIN, P.I., inzh., red.;
RUDAKOVA, N.I., tekhn. red.

[Collection No.1 of consolidated indices of the cost of industrial buildings and structures for revaluating fixed assets on collective farms] Sbornik no.1 ukрупnennykh pokazatelei stoimosti zdanii i sooruzhenii proizvodstvennogo naznachenia dlia peretsenki osnovnykh fondov v kolkhozakh. Uтвержден Gosudarstvennym komitetom Soveta Ministrov SSSR po delam stroitel'stva 11 ianvaria 1961 g. Moskva, Gos. izd-vo po stroit., arkhitekt. i stroit. materialam, 1961. 335 p. (MIRA 14:9)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy kmitet po delam stroitel'stva.

(Collective farms--Valuation)

SMIRNOV, Anatoliy Filippovich, doktor tekhn. nauk, prof.; ALEKSANDROV, Anatoliy Vasil'yevich, kand. tekhn. nauk, dots.; MONAKHOV, Nikolay Ivanovich, kand. tekhn. nauk, dots.; PARFENOV, Dionisiy Fedorovich, dots.; SKRYABIN, Aleksandr Ivanovich, kand. tekhn. nauk, dots.; FEDORKOV, Georgiy Vasil'yevich, kand. tekhn. nauk, dots.; KHOLCHEV, Vasiliy Vasil'yevich, kand. tekhn. nauk, dots.; DARKOV, A.V., prof., retsenzent; STARSHINOV, K.K., kand. tekhn. nauk, retsenzent; BURCHAK, G.P., kand. tekhn. nauk, red.; VERINA, G.P., tekhn. red.

[Strength of materials] Soprotivlenie materialov. Moskva, Vses. izdatel'sko-poligr.ob"edinenie M-va putel soobshchenia, 1961. 591 p. (MIRA 14:1.)

I. Chlen-korrespondent Akademii Stroitel'stva i Arkhitektury SSSR (for Smirnov).

(Strength of materials)

MOHAKHOV, N.I., kand.tekhn.nauk, dotsent

Ultimate uniform elongation during a tensile test as universal
characteristics of the strength of metals. Trudy MIIT no.131:218-
229 '61. (MIRA 14:5)

(Metals—Testing)

IFTINKA, G.A., red.izd-va; MONAKBOV, N.I., inzh., red.; TARKHOVA,
K.Ye., tekhn. red.

[Regulations for planned preventive maintenance of industrial
buildings] Polozhenie o provedenii planovo-predupreitel'nogo
remonta proizvodstvennykh zdani. Moskva, Gosstrofizdat,
1963. 40 p. (MIRA 17:2)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam
stroitel'stva.

MONAKHOV, N.I.; IL'INSKIY, M.F.; KRIVOSHEV, N.I.; YEGORENKO, B.F.;
KUDENKO, S.A.; NEBABA, P.S.

Concerning M.K. Zaitsev's article "Establishing expenditure
norms for the procurement and storage of drilling equipment"
("Neftianoe khoziaistvo," No.3, 1962). Neft. khoz. 40 no.11:
34-35 N '62. (MIRA 16:7)

(Oil well drilling—Equipment and supplies)

MONAKHOV, N.I., red.; PLOTEL', S.G., red.

[Handbook on estimated consolidated norms in the construction of oil and gas wells; effective as of January 1, 1961]
Spravochnik ukрупnennykh smetnykh norm (SUSN) na stroitel'stvo neftiannykh i gazovykh skvazhin; v normakh, deistvuyushchikh na 1/I 1961 g. Moskva, Stroiizdat, 1964. 361 p.

(MIRA 17:7)

1. Russia (1923- U.S.S.R) Gosudarstvennyy komitet po delam stroitel'stva.

MONAKHOV, N.I., inzh., red.

[Regulation on the planned preventive maintenance of industrial buildings] Polozhenie o provedenii planovo-predupreditel'nogo remonta proizvodstvennykh zdani.
2. izd. Moskva, Stroiizdat, 1964. 41 p. (MIRA 17:12)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam stroitel'stva.

MONAKHOV, N.I., inzh., red.

[Regulation on the planned preventive repair of the super-structure, roadbed, and engineering structures of the railroads of the U.S.S.R.] Polozheniia o provedanii planovopredupreditel'nogo remonta verkhnego stroeniia puti, zemlianogo polotna i iskusstvennykh sooruzhenii zheleznnykh dorog Soiuza SSR. Moskva, Stroiizdat, 1964. 45 p.

(MIRA 17:12)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam stroitel'stva.

ANDREYEV, K.P.; SEMUSHINA, T.N.; MONAKHOVA, N.I.

Return of post-yeast mashes for sulfite liquor dilution in yeast
production. Sbor.trud.NIIGS 12:113-123 '64.

(MIRA 18:3)

MONAKHOV, N.I., inzh., red.

[Regulation concerning the planned preventive repair of structures serving a general industrial purpose. Approved by the State Committee for Construction of the U.S.S.R. September 7, 1964.] Polozhenie o provedenii planovo-predupreditel'nogo remonta sooruzhenii obshche-proizvodstvennogo naznachenia. Utverzhdeno Gosudarstvennym komitetom po delam stroitel'stva SSSR 7 sentiabria 1964. g. Moskva, Stroiizdat, 1965. 27 p.

(MIRA 18:3)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam stroitel'stva.

MONAKHOV, N.I., inzh., red.

[Regulation concerning planned preventive maintenance of apartment houses and public buildings] Polozhenie o provedeni planovopredupreditel'nogo remonta zhilykh i obshchestvennykh zdani. Moskva, Stroiizdat, 1965. 127 p.
(MIRA 18:4)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam stroitel'stva.

MONAKHOV, N.I., inzh.; DUBINSKIY, A.M., red.; SHER, S.Yu., red.

[Price list no.1 of the average district estimated prices
of materials, wares, and elements] TSennik No.1 srednikh
raionnykh smetrykh tsen na materialy, izdelia i kon-
struktsii. Moskva, Stroiizdat, Pt.3. 1965. 191 p.
(MIRA 18:5)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po
delam stroitel'stva.

MONAKHOV, N.K.

Biochemical functions of various types of heart mitochondria.
Biokhimiia 29 no.5:955-963 J1-Ag '64. (MIRA 18:11)

1. Laboratoriya biokhimicheskoy genetiki Instituta
eksperimental'noy meditsiny AMN SSSR, Leningrad.

MONAKHOV, N.K.; NEYFAKH, S.A.

Identity of glucose oxidase and microcide from a new species of
Penicellium vitale. Biokhimiia 27 no.3:495-501 My-Je '62.

(MIRA 15:8)

I. Biochemical Department, Institute of Experimental Medicine,
Academy of Medical Sciences of the U.S.S.R., Leningrad.

(PENICILLIUM) (MICROCIDE) (GLUCOSE OXIDASE)

AUTHOR: Monakhov, N.M.

SOV/147-58-1-3/22

TITLE: On the Calculation of the Circulation of a Side-slipping Wing of High Aspect Ratio (K raschetu tsirkulyatsii skol'zyashchego kryla bol'shogo udlineniya)

PERIODICAL: Izvestiya Vysshikh Uchebnykh Zavedeniy, Aviatsionnaya Tekhnika, 1958, Nr 1, pp 19 - 26 (USSR)

ABSTRACT: In calculating the circulation of a swept wing of large aspect ratio, the method of the "three-quarter chord" is used. As in the case of a straight wing, the concept of the lifting line is used but the boundary condition is satisfied not on the lifting line but on a line at a distance of half the chord from it. This paper gives a method for calculating the circulation of a side-slipping wing of large aspect ratio based on lifting surface theory. It is shown that the determination of the circulation by the "three-quarter chord" method is valid to the first order of accuracy. The usual assumptions of lifting surface theory are made. There is a graph showing the variation of the circulation from wing tip to wing tip for a wing side-slipping at an angle of 45° .

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SOV/147-58-1-3/22

On the Calculation of the Circulation of a Side-slipping Wing of High Aspect Ratio

There are 1 figure and 3 Soviet references.

ASSOCIATION: Kafedra aerodinamiki, Kazanskiy aviatsionnyy institut
(Chair of Aerodynamics, Kazan Aviation Institute)

SUBMITTED: October 30, 1957

Card 2/2 1. Wings--Lift 2. Mathematics--Applications

83487

S/124/60/000/007/008/008
A005/A001

26.2120

Translation from: Referativnyy zhurnal, Mekhanika, 1960, No. 7, p. 157, # 9472

AUTHOR: Monakhov, N. M.TITLE: On the Calculation of Stresses in a Turbine DiskPERIODICAL: Tr. Kazansk. aviats. in-ta, 1958, Vol. 38, pp. 191-202

TEXT: An exact solution in the closed form is obtained for an elastic conic revolving disk subjected to symmetric heating, at the value of Poisson coefficient $\nu = 0.25$. An approximate method is presented for calculating a disk of arbitrary profile approximated by conic disk sections; the method is sufficiently accurate for all possible values of ν . Deformations from non-uniform heating and centrifugal force are symmetrical with respect to the revolution axis of the disk. The temperature and the elasticity modulus vary along the radius according to the linear law. The linear dilatation coefficient, the Poisson coefficient, the specific gravity, and the angular velocity are assumed to be constant. A differential equation of the problem with respect to the radial shift is obtained. The solution of the homogeneous

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A005/A001

On the Calculation of Stresses in a Turbine Disk

equation of the problem is reduced to hypergeometric functions of the form $F(\alpha, \beta, \gamma, r)$, which are different for narrowing and expanding disks (α, β, γ are the parameters). The approximate solution of the equation involves complete elliptic integrals.

L. V. Troyankina

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

Card 2/2

68932

S/147/59/000/04/005/020
E031/E413

10.2000

AUTHOR: Monakhov, N.M.

TITLE: On the Solution of the Wave Equation for the Problem of Flow Over a Thin Unsymmetrical Wing ✓

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Aviatsionnaya tekhnika, 1959, Nr 4, pp 40-51 (USSR)

ABSTRACT: This paper was given at a scientific-technical conference of the Kazan' Aviation Institute in March 1958. It considers the disturbed motion of an ideal gas over an advancing and harmonically oscillating thin unsymmetrical wing with subsonic edges. Solutions for the wave equation in the linear theory of the wing are obtained in the first and second approximations. These solutions generalize the results of Ref 1. The wing is assumed to be moving in the direction of the negative x-axis and the z-axis is directed vertically upwards. The velocity potential is referred to a fixed coordinate system $oxyz$, and is regarded as composed of two terms, one for the steady state forward motion of the wing and the other for the harmonic oscillations of the wing. Since the steady state equation is a special case of the

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S/147/59/000/04/005/020
E031/E413On the Solution of the Wave Equation for the Problem of Flow Over
a Thin Unsymmetrical Wing

time dependent one, it is not considered separately. The potential of the harmonic motion φ_1 has a space dependent component $F(x,y,z)$, and the time dependence is expressed through the term

$$\exp i \left(\omega t + \frac{M \omega x}{a(M^2 - 1)} \right)$$

The function $F(x,y,z)$ and hence the flow over the wing would be fully defined if the value of F on the surface of the wing and the vortex sheet was known. On the wing and the vortex sheet, the function $F(x,y)$ is sought as a series in the parameter $k = \omega/a(M^2 - 1)$:

$$F(x,y) = \sum_{n=0}^{\infty} F_n(x,y) k^n$$

Card 2/4

A set of integrodifferential equations are obtained for the function F_n . Their solution is by the method of

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E031/E413

On the Solution of the Wave Equation for the Problem of Flow Over
a Thin Unsymmetrical Wing

successive approximations. Three regions of the wing are distinguished. The first is where the vortex sheet has no influence, the second is where it is attached to only one edge of the wing and the third is where it is attached to both edges of the wing. To determine the functions F_n in the whole of the second region, use is made of an auxiliary condition by means of which the value of F_n on the vortex sheet can be obtained from its value on the edge of the wing. This leads to an equation which cannot be solved in closed form but it can be solved to any desired degree of accuracy by successive approximations. The third region is treated similarly and requires a knowledge of F_n in the second region. (The first region is trivial.) By way of an example, a triangular wing is considered from the lower edge of which there is a vortex sheet. The first and second approximations for $F_0(x,y)$ are compared with the known exact solution and it is easily seen that the first approximation differs from the exact solution only

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E031/E413

On the Solution of the Wave Equation for the Problem of Flow Over
a Thin Unsymmetrical Wing

by terms of the third order of smallness. The second
approximation differs from the exact solution by terms
of the fifth order of smallness. There are 1 figure and
4 references, 2 of which are Soviet and 2 English.

ASSOCIATION: Kafedra teoreticheskoy mekhaniki, Kazanskiy
aviatsionnyy institut (Chair of Theoretical Mechanics,
Kazan Aviation Institute)

SUBMITTED: July 6, 1959

Card 4/4

✓

10.6120

S/124/60/000/012/005/009
R005/R001

Translation from: Referativnyy zhurnal. Mekhanika, 1960, No. 12, p. 56, # 15792

AUTHOR: Monakhov, N.M.

TITLE: On the Problem of Flow Around Thin Wings With Subsonic Edges

PERIODICAL: Tr. Kazansk. aviats. in-ta, 1959, Vol. 44, pp. 27-38

TEXT: The problem of a hypersonic gas flow around a vibrating symmetric wing with subsonic leading edges is considered in a linearized formulation. The leading edges mutually intersect and form an angle point. The author solves the fundamental integral equation by the successive approximation method. ✓

Ye.A.Krasil'shchikova

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

Card 1/1

S/147/62/000/004/004/019
E031/E113

AUTHOR: Monakhov, N.M.

TITLE: Application of Riemann's method to the solution of the problem of the flow past thin bodies

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Aviatzionnaya tekhnika, no.4, 1962, 27-35

TEXT: By using Bernouilli's integral and introducing characteristic variables, differential equations for the longitudinal and transverse perturbation potentials are obtained from the supersonic wave equation. The application of Riemann's method leads to the same integral equation in each case and the problem is reduced to that of determining the potentials on the generators of the body of rotation. The perturbation potential of the longitudinal flow is determined to the fifth order of smallness in the non-dimensional thickness of the body and the perturbation potential of the transverse flow is determined to the fourth order of smallness. There is 1 figure.

SUBMITTED: February 20, 1962

Card 1/1

L 2546-66 EWT(1)/EWP(m)/EWT(m)/FCS(k)/EWA(c)
 ACCESSION NR: AT5023186

JD/MW
 UR/2529/62/000/071/0050/0055

AUTHOR: Monakhov, N. H.

47
 B+1

TITLE: On the problem of hypersonic gas flow over a slender body

SOURCE: Kazan. Aviatzionnyy institut. Trudy, no. 71, 1962. Matematika i mekhanika, 50-55

TOPIC TAGS: hypersonic flow, inviscid fluid, Mach number, shock wave, linearised theory, Bernoulli equation

ABSTRACT: The hypersonic flow of an ideal gas over slender bodies is discussed. The flow Mach number is assumed to be infinite and is directed along the x-axis. Nondimensional coordinates ξ and η are introduced, and the following boundary value problem is obtained in nondimensional form

$$\frac{\partial^2 \eta}{\partial \xi^2} + \frac{2 \xi'(\eta)}{\xi \xi'(\eta)} \frac{\partial \eta}{\partial \xi} - \frac{(x+1)^{x+1}}{2x(x-1)^x} \xi^x \left(\frac{\partial \eta}{\partial \xi} \right)^{x+1} \frac{\partial^2 \eta}{\partial \xi^2} = 0.$$

$$\eta = \eta(\xi), \quad \frac{\partial \eta}{\partial \xi} = \frac{2}{x+1} \eta', \quad \frac{\partial \eta}{\partial \xi} = \frac{x-1}{x+1} \quad \text{at } \xi = \eta(\xi).$$

$$\eta = \eta(\xi) \quad \text{at } \xi = 0$$

Card 1/3

L 2446-66

ACCESSION NR: AT5023186

This equation is integrated immediately on the assumption that $\frac{\partial \eta}{\partial \xi^2}$ is a known function of ξ and ψ . From this solution the equation for the shock wave is obtained, given by

$$\eta_r(\xi) = \eta(\xi) - \frac{x-1}{x+1} \int_0^{\eta(\xi)} \left[t^{2x} (\eta^{2x} + \frac{x+1}{2} \int \frac{\partial^2 \eta}{\partial \xi^2} d\psi) \right]^{-\frac{1}{x}} d\psi.$$

Solution of this equation by the usual power series expansion in

$$\lambda = \frac{x-1}{x+1}$$

is unsuitable for convex profiles. Consequently, it is proposed to represent $\frac{\partial^2 \eta}{\partial \xi^2}$ by

$$\frac{\partial^2 \eta}{\partial \xi^2} = \frac{4(2x-1)}{(x+1)^2} \eta^x.$$

When this is substituted into the shock wave expression and the term $(t^{2x})^{-\frac{1}{x}}$ replaced by a second degree polynomial, a much more accurate expression is obtained for the pressure coefficient C_p than Busmann's λ -expansion method. This method can be generalized to $M_\infty \neq \infty$ as long as $M_\infty \gamma > 1$. Orig. art. has: 21 equations and 2 figures.

Contd 2/3

L 2546-66

ACCESSION NR: AT5023186

ASSOCIATION: Kazanskiy aviatsionnyy institut (Kazan Aviation Institute)

SUBMITTED: 11May61

ENCL: 00

SUB CODE: ME

NO REF SOV: 002

OTHER: 002

Card 3/3 *pd*

I. 23015-66 EWT(d)/EWT(l)/EWP(m)/EWT(n)/EWP(w)/EWA(d)/EWP(x)/EWP(k)/EWA(h)/
 ACC NR: AP6011780 ETC(m)-6/EWA(1) SOURCE CODES: UR/0147/66/000/001/0003/0015
 LJP(c) Wd/EM

74
 B

AUTHOR: Monakhov, N. M.

ORG: none

TITLE: Hypersonic flow past conic bodies

SOURCE: IVUZ. Aviatzionnaya tekhnika, no. 1, 1966, 3-15

TOPIC TAGS: hypersonic aerodynamics, hypersonic flow, steady flow, shock wave structure, pressure distribution

ABSTRACT: The problem of hypersonic flow past conic bodies is investigated in order to increase the accuracy of solutions obtained by A. Ferri, L. Lees, and others. Steady hypersonic gas flows past conical bodies with arbitrary apex angles and at $\gamma = \text{constant}$ are considered in polar coordinates (r, θ, y) selected in such a manner that the angle θ is measured from the x-axis, which coincides with the direction of free stream velocity v_∞ . It is assumed that the shock wave is adjacent to the body in accordance with hypersonic flow regime. The solution is expanded in series in parameters $\epsilon_1 = \gamma - 1 / \gamma + 1$, and $\epsilon_2 = \cot \theta_{0B} (\theta_{0C} - \theta_{0B})$, where θ_{0B} and θ_{0C} are the semiapex angles of the cone and of the conical shock wave, respectively. The general equations of motion are written from which the expressions for velocity components are derived and the boundary conditions on the body surface and on the shock wave are established. Approximate expressions for the velocity components are obtained by expanding the velocity components in series in conical ray angles, using

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UDC: 533.601.155

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the simplified formulas obtained by L. Lees. Once these quantities are determined, the surface pressure distribution and the shape of the shock wave may be calculated. Some examples of numerical calculations carried out in order to illustrate the accuracy of the theoretical analysis show that better agreement exists between the calculations of the shape of a shock wave than those for pressure distribution. The accuracy of the theoretical analysis presented here is demonstrated by a comparison of the results of numerical calculations with available data. Orig. art. has: 3 figures and 62 formulas. [AB]

SUB CODE: 20/ SUBM DATE: 05Jan65/ ORIG REF: 002/ OTH REF: 005/ ATD PRESS:

4234

Card 2/2

MONAKHOV, V.; KONDASHOVA, N., red.

[Repair and operation of magnetic tape recorders for
reporters] Remont i ekspluatatsiya reportazhnykh mag-
nitofonov. Moskva, Gos.kom-t Soveta Ministrov SSSR po
radioveshchaniu i televideniiu, 1964. 103 p.
(MIRA 18:4)

MONAKHOV, V.

Road documentation should be improved. Avt.transp. 43
no.11:41-42 N '65. (MIRA 18:12)

1. Zamestitel' nachal'nika Tsentral'nogo statisticheskogo
upravleniya SSSR pri Soveta Ministrov SSSR.

MOHAKHOV, V. inzh.

Approximate calculation of pressure in pumps. Poshdelc 6 no.9:21-
22 S '60. (MIRA 13:9)

(Pumping machinery)

MONAKHOV, V., insh.

Approximate calculation of the pressure in the pump. Pozh.delo
7 no.4:18-19 Ap '61. (MIRA 24:4)
(Pumping machinery)

MONAKHOV, V., inzh.

Geometrical kinetics of a fire. Pozh.delo 8 no.1:19-20 Ja '62.
(MIRA 15:1)

(Fire prevention--Study and teaching)

MONAKHOV, V.; RASCHETIN, G.

The reader is not satisfied. Pozh.delo 8 no.6:32 Je '62.
(MIRA 15:6)
(Peat industry--Fires and fire prevention)

MONAKHOV, V., inzh.

Fire in a distillery. Pozh.deol 9 no.2:16-18 P '63. (MIRA 16:3)
(Distilleries—Fires and fire prevention)

MONAKHOV, V. A.

Ratsional'noe ispol'zovanie tipovykh proektov zhilykh domov [Efficient use of standard plans for apartment houses]. Moskva, Gos. izd-vo lit-ry i stroit. arkhit., 1953.

SO: Monthly List of Russian Acquisitions, Vol 7 No 2 May 1954.

ALEKSANDROV, A.Ya., doktor tekhn. nauk, prof.; MONAKHOV, V.F., inzh.

Using the photoelastic method to determine the pressure of piston rings on cylinder walls. Trudy NIIKHT no.8:125-129 '52. (MIRA 11:6)
(Photoelasticity) (Piston rings)

BR

PHASE I BOOK EXPLOITATION

SOV/5983

Monakhov, Valentin Ivanovich

Izmereniye raskhoda i kolichestva zhidkosti, gaza i para (Measuring the Rate of Flow and Total Discharge of Liquid, Gas, and Vapor) Moscow, Gosenergoizdat, 1962. 127 p. (Series: Biblioteka po avtomatike, vyp. 50) 23,000 copies printed.

Editorial Board: I. V. Antik, A. I. Bertinov, S. N. Veshenevskiy, V. S. Kulebakin, V. E. Nize, V. S. Malov, A. D. Smirnov, and B. S. Sotskov;
Ed.: L. I. Shipetin; Tech. Ed.: M. M. Shirokova.

PURPOSE: This book is intended for engineers and technicians in various branches of industry who are engaged in the automation of production but lack specialized knowledge and preparation in control and measurement technique.

COVERAGE: The book contains systematized information on industrial methods for measuring rate of flow and total discharge of liquids, gases, and vapors. Attention is given to the working principles and theoretical foundations of

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Measuring the Rate of Flow (Cont.)

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instruments used for this purpose. Information is also given on their mounting and operation. The book presents data required for elementary control calculations of flowmeters for variable pressure drop. Methods for flow-rate measurement which are not yet widely used in industry are also described. No personalities are mentioned. There are 32 references, all Soviet.

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AVAILABLE: Library of Congress

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6-26-62

MOHAKHOV, V.K.; FUKS-RABINOVICH, M.S.

Numerical forecasting of vertical currents for some days in advance on the basis of baroclinic linear three-level model of the atmosphere. Trudy TSIP no.126:20-27 '63. (KIRA 16:11)

TEPIKICHYEV, V.K., prof., otv. red.; MARTYNOV, V.D., dots., red.;
CHERNAYA, N.N., st. inzh., red.; MONAKHOV, V.K., st. inzh.,
red.; SHALCHIKOV, V.A., ispol. obyazan. dots., red.;
BABIKOV, V.V., red.

[Use of ultrasonic waves in agricultural machinery manu-
facture] Primenenie ul'trazvuka v sel'skokhoziaistvennoy
mashinostroyeni. Rostov-na-Donu, Izd-vo Rostovskogo univ.,
1964. 157 p. (MIRA 18:3)

1. Rostov-on-Don. Institut sel'skokhozyaystvennogo mashin-
stroyeniya.

MONAKHOV, V.N.

One of the boundary value problems in the theory of functions. Izv.
vys.ucheb.zav.; mat. no.1:154-165 '60. (MIRA 13:6)

I. Kazanskiy gosudarstvennyy universitet imeni V.I.Ul'yanova-
Lenina.

(Functions of complex variables)

MONAKHOV, V. N.

Cand Phys-Math Sci - (diss) "Reversible mixed boundary problem."
Kazan', 1961. 6 pp; (Ministry of Higher and Secondary Specialist
Education RSFSR, Rostov State Univ); 150 copies; price not given;
bibliography at end of text (11 entries); (KL, 6-61 sup, 194)

ACCESSION NR: AR3000177

B/0274/63/000/004/A071/A071

SOURCE: RZh. Radiotekhnika i elektronv'яз', Abs. 4A456

AUTHOR: Gurkin, V. A.; Monakhov, V. N.

TITLE: FM-generator utilizing variconds (varicaps)

CITED SOURCE: Sb. Semetoelektriki, Rostovsk. un-t, Rostov-na-Donu, 1951, 128-133

TOPIC TAGS: FM-generator; variconds (varicaps); circuit coupling

TRANSLATION: Description of the arrangement and use of an FM-generator employing variconds (varicaps) which are connected in the plate circuit of the generator with inductive coupling. Frequency swing control is effected with alternating voltage of 50 cps applied to the variconds. Adjustment of center frequency of oscillations of the generator is achieved by regulation of constant voltage also supplied to the

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ACCESSION NR: AR3000177

variconds. The generator operates at 465 Kc; frequency deviation amounts to 10%. Results of tests of the generator, used for circuit coupling adjustment, are described. S. B.

DATE ACQ: 16 May 63 ENCL: 00

SUB CODE: 00

Card 2/2

S/044/62/000/009/024/069
A060/A000AUTHOR: Monakhov, V. N.

TITLE: On special cases in the inverse mixed boundary problem

PERIODICAL: Referativnyy zhurnal, Matematika, no. 9, 1962, 56, abstract 9B264
("Tr. Kazansk. aviats. in-ta", 1961, no. 64, 25 - 45)TEXT: The following inverse mixed boundary problem is considered: On the arc L_1^i , the known portion of the contour L_z , the boundary condition

$$\bar{z}(u, v) = 0, \quad (1)$$

is imposed, and on the unknown portion L_2^z of the contour L_z the conditions

$$u = f_1(\tau), \quad v = f_2(\tau), \quad (2)$$

are given (where τ denotes one of the parameters $x = \operatorname{Re} z$, $y = \operatorname{arctg} y'$, $\theta = \operatorname{arg} z$, s - the abscissa along the arc). It is required to determine the unknown portion L_2^z of the contour L_z and the function $w(z) = u + iv$ regular in the domain bounded by the contour L_z and satisfying the boundary conditions (1) and

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A060/A000

On special cases in the inverse mixed boundary problem

(2). The following special cases are considered in the present paper: 1. The requisite function $w(z)$ has a simple pole inside the contour L_z and has also singularities upon the specified arc L_z^1 . 2. The functions u, v , have upon L_z^2 a singularity of the form

$$u = (\tau - \tau_0)^{\alpha} \gamma(\tau) + u_0, \quad v(\tau) = (\tau - \tau_0) \gamma(\tau) + v_0,$$

where $\gamma(\tau), \gamma(\tau)$ are differentiable from the left and from the right of τ_0 , and the limits

$$\frac{\gamma(\tau_0-0)}{\gamma(\tau_0-0)} = \frac{\gamma^-}{\gamma^-} \quad \text{and} \quad \frac{\gamma(\tau_0+0)}{\gamma(\tau_0+0)} = \frac{\gamma^+}{\gamma^+}$$

exist. 3. The functions u, v , have on L_z^2 a singularity of the form

$$u = \gamma(\tau) \exp\left(-\frac{\alpha}{|\tau - \tau_0|^{\alpha}}\right) + u_0,$$

$$v = \gamma(\tau) \exp\left(-\frac{\alpha}{|\tau - \tau_0|^{\alpha}}\right) + v_0.$$

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