AUTHOR: Krainskiy,L.I.; Suslov, K.V.   SOV-90-58-8-9/9

TITLE: Wear and damage to the Parts and Units of the M-601 Engine
             (Ob iznose i povrezhdeniyakh detaley i uzlov dvigatelya M-601)

PERIODICAL: Energeticheskiy byulleten', 1958, Nr 8, pp 27 - 32 (USSR)

ABSTRACT: The M-601 engine (a modification of the M-50 engine), in
             conjunction with the SA-700 power drive equipment, is now
             being introduced extensively into oilfields for drilling,
             pumping etc, as a replacement for less powerful drives, such
             as those with B2, 8S230r engines. The article takes each
             part in turn and lists the damage, flaws and wear that may
             develop, making recommendations for the repair and main-
             tenance of the engine. There are 4 photos, 1 table and 1
             diagram.

             1. Engines--Maintenance

Card 1/1

PETROV, V.P., starshiy inzh.; LANKIN, G.N., inzh.; TITOV, V., inzh.;
SUSLOV, L., zhurnalist; PROSKURIN, A.N., zhurnalist; ITUNINA,
R.G., red.; SHRADZSKAYA, P.G., tekhn.red.

[Nikolai Manukovskii's new initiative] Novyi pochin Nikolaia
Manukovskogo. Voronezh, Voronezhskoe knizhnoe izd-vo, 1960.
201 p.   (MIRA 14:1)
          (Farm mechanization)

SUSLOV, L., inzh.; SMILOV, N., inzh.; SHUMAKHER, L., inzh.

Rural construction requires precast elements. Zhil. stroi.
no.10: 28-29 O '61.
                    (Precast concrete construction)
                                                    (MIRA 14:10)

GROSS, Ye.F.; SUSLINA, L.G.; LIVSHITS, A.I.

    Reflection and luminescence of zinc telluride single crystals. Fiz. tver.
tela 5 no.3:801-806 Mr '63.   (MIRA16:4)

  1. Fiziko-tekhnicheskiy institut imeni A.F.Ioffe AN SSSR, Leningrad.
     (Zinc telluride crystals--Spectra)   (Crystals--Models)

SUSLOV, L.V., inzh.

Determining the optimum operating speed for the rotor of the potato digger. Mekh.i elek.sots.sel'khoz. 19 no.5:54-56 '61.
(MIRA 14:10)

1. Moskovskaya sel'skokhozyaystvennaya akademiya imeni K.A.Timiryazeva.
(Potato diggers)

SUSLOV, L.Ye.

Automatic calculating and printing accelerograph. Trudy KazNIGMI
no.11:176-177 '59.   (MIRA 13:6)
               (Accelerometers)

SUSLOV, L.Ye.

Double secular cycles of solar activity and their geophysical
manifestations. Trudy KazNIGMI no.19:134-146 '63.   (MIRA 17:3)

SOV/112-58-1-1316

Translation from: Referativnyy zhurnal, Elektrotekhnika, 1958, Nr 1, p 197 (USSR)

AUTHOR: Suslov, M. O.

TITLE: Universal Measuring Instrument (Universal'nyy izmeritel'nyy pribor)

PERIODICAL: Nauk. zap. Kam'yanets' - Podil'sk. derzh. ped. in-t, 1956, Nr 2, pp 53-58

ABSTRACT: A universal instrument is described that can produce: a rectified voltage of 0-12 v and 0-300 v, modulated oscillations 75 kc to 20 mc with percentage modulation of 0-100%, 1,000-cps oscillations with continuously regulated output; the instrument can measure resonance frequency of an oscillatory circuit, capacitance from a few µµf up to 10 µf, capacitor leakage, resistances from 1 ohm to 10 megohms, DC current in the range of 3-15-150-300 ma, DC voltage in the range of 3-15-150-300 v, AC voltage in the range of 15-300-600 v, and can check emission of certain tube types. Only 4 tubes are used in the instrument.

S. D. D.

AVAILABLE: Library of Congress

Card 1/1   1. Oscillator circuits--Frequency measurement   2. Instruments--Design
             3. Instruments--Performance.

1. SUSLOV, M. P.

2. USSR (600)

4. Mixing Machinery

7. Equipment for asphalt-concrete mixing plant. Mekh stroi. 9 no. 9 , 1952.

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

SUGLOV, M. P.   Cand. Tech. Sci.

Dissertation: "Certain Problems of Automation of Pump Installations." All-Union Sci
Res Inst of Water Supply, Sewerage, Hydraulic Structures and Engineering Hydrogeology
--VODGEO, 27 May 47.

SO: Vechernyaya Moskva, May, 1947 (Project #17836)

Subbotin, B. P.

Automatization of industrial water-supply systems Moskva, Gos. izd-vo stroit. lit-ry, 1949. 151 p. (50-15910)

TD353.S85

SUSLOV, M. P.

Suslov, M. P. and Zaydman, Ya. A. - "An automatic pumping station for deep drain-
age", Gor. Khoz-vo Moskvy, 1949, No. 1, p. 17-22.

SO: U-3042, 11 March 53, (Letopis 'Zhurnal 'nykh Statey, No. 8, 1949).

SUSLOV, M.P., kandidat tekhnicheskikh nauk.

More efficient water supply for multi-storied houses. Gor.khoz.Mosk. 25
no.9:21-23 S '51.   (MIRA 6:11)
                    (Pumping machinery) (Water—Distribution)

SUSLOV, M.P.

Automatic regulator of filtration rate.   Vod.i santekh. no.6:19-28
Je '57.   (MIRA 10:7)
        (Filters and filtration)   (Automatic control)

PERTSOV, V.; SUSLOV, M., starshiy nauchnyy sotrudnik.

Automatic controller of the rate of filtration. Zhil-kom.khoz. 7
no.4:14-17 '57.   (MIRA 10:7)

1. Upravlyayushchiy trestom "Vodokanalizatsiya," g. Ivanovo (for
Pertsov). 2. Vsesoyuznyy nauchno-issledovatel'skiy institut vodo-
snabzheniya, kanalizatsii, gidrotekhnicheskikh sooruzheniy i
inzhenernoy gidrogeologii (for Suslov).
             (Water--Purification) (Automatic control)

AUTHOR: Suslov, M.P.   SOV/133-58-8-28/30

TITLE: On the Problem of Automation and Dispatcher Control of
             the Water Supply in Metallurgical Works (K voprosu o
             dispetcherizatsii i avtomatizatsii vodosnabzheniya
             metallurgicheskogo zavoda)

PERIODICAL: Stal', 1958, Nr 8, pp 759 - 763 (USSR)

ABSTRACT: The problem of the centralised control and automation of
             the supply and distribution of water in integrated iron
             and steel works is discussed. It is concluded that the
             centralised control of the supply and distribution of
             water can be attained at present with apparatus produced
             in Russia.
             There are 6 figures.

             1. Industrial plants--Water supply

Card 1/1

SOV-90-58-9-6/8

AUTHOR: Suslov, M.P.

TITLE: The Dispatching and Automation of Water Supply Systems in
              Oil Refineries (Dispetcherizatsiya i avtomatizatsiya sistem
              vodosnabzheniya neftezavodov)

PERIODICAL: Energeticheskiy byulleten', 1958, Nr 9, pp 20-26 (USSR)

ABSTRACT: To bring the water supply systems of oil refineries into
              line with the production processes, a great degree of re-
              mote control and automation is needed. Apparatus for creat-
              ing a single, centralized control system is produced by the
              Leningrad "Elektropul't" Plant in the form of the VRT-53, for
              remote control, and the UTB-55 for remote measuring. The
              VRT-53 works on the time-pulse system using reverse step
              selectors as distributors, the mechanical action to be per-
              formed being determined by the length of the pause between
              two D.C. Pulses transmitted from the central dispatching
              point. Four modifications of the VRT-53 are listed. An
              example for a remote control system for use in the Groz-
              neftezavody is given, together with a skeleton outline for
Card 1/2   the lay-out of the basic units in the water supply system.

SOV-90-58-9-6/8

The Dispatching and Automation of Water Supply Systems in Oil Refineries

A comparison of the various possible systems indicates that
the best one would be a one-stage arrangement of control
with full remote mechanization. All the basic units of the
water supply system must be subjected to as complete a de-
gree of automation as possible. The local telephone net-
work should be used for the communications channel between
the dispatching point and the control objects and in build-
ings where there is particular danger from gas the VODGEO
automatic control apparatus should be fitted. There are
4 block diagrams, 2 tables and 3 Soviet references.

1. Refineries--Water supply   2. Petroleum--Processing

Card 2/2

28(1),11(5)

AUTHOR: Suslov, M.P., Candidate of Technical Sciences   SOV/119-58-12-2/13

TITLE: Apparatus for the Automation of Water Drainage Pump Stations in
              Shafts and Mines With Choke-Damp Danger
              (Apparatura dlya avtomatizatsii nasosnykh vodootlivnykh ustanovok
              v shakhtakh i rudnikakh, opasnykh po gazu)

PERIODICAL: Priborostroyeniye, 1958, Nr 12, pp 3-6 (USSR)

ABSTRACT: A number of special devices for water drainage from shaft installa-
              tions exposed to choke-damp danger have been developed by the Vse-
              soyuznyy nauchno-issledovatel'skiy institut VODGEO (All-Union
              Scientific Research Institute VODGEO), which afterwards were examined
              by the MAKNII. The tests yielded positive results. This kind of equip-
              ment has been developed for shaft installations where the ordinary
              RV equipment cannot be used. AYAP-300 centrifugal pumps are used in
              this type of plant. The automatic control system of the pumping plant
              is provided for the following operations:
              1) An automatic starting and stopping of pumps in dependence on the
              water level in shafts.
              2) Remote-controlled starting and stopping of pumping plants from the
Card 1/3   control rooms on the surface.

SOV/119-58-12-2/13

Apparatus for the Automation of Water Drainage Pump Stations in Shafts and Mines
With Choke-Damp Danger

3) Automatic stopping of broken down pumping plants and simultaneous
starting of the reserve plant.
4) Automatic stopping of the pumping plant if the explosive gas con-
centration in the shafts exceeds the adjusted level of undangerous
concentration.
5) Remote-controlled transmission of performance data of the in-
dividual parts of the plants. The plant is constructed explosion-
proof in accordance with V2B and V3G. The individual parts of the
plant are portrayed in cross sectional drawings and circuit diagrams
are given. The following parts are described in detail:
Floater relay of the type MKU-48.
The cause of a breakdown is transmitted by means of signal relays.
The plant can be completely converted to remote control operation
by manipulating two master switches. The automatic control apparatus
located below the pumping plant is supplied through a cable of 2.5mm²
cross section of type KSRPG. The other cable lines are stranded into
one comprehensive cable of type VKU-00 produced by the Konotopskiy
zavod "Krasnyy metallist" (Konotop factory "Krasnyy metallist").
A contact manometer is used as a transducer in the control of the

Card 2/3   head of water, which is produced by the factory "Manometr". It is

Apparatus for the Automation of Water Drainage Pump Stations in Shafts and Mines
With Choke-Damp Danger

SOV/119-58-12-2/13

mounted in an explosion-proof case. The temperature of the ball bear-
ings is measured with a special thermometer of the type EKT (range of
0 to 400°C). This is also mounted in an explosion-proof case. The
blue-prints of the plant described are available at the Institut
VNII-VODGEO. Write to: Moscow, G-131, Bol'shiye kochki, d.17a.-
There are 6 figures.

Card 3/3

SUSLOV, M.P., kand.tekhn.nauk

Centralize control of water supply lines. Stroi.truboprov. 4
no.12:4-6 D '59.   (MIRA 13:5)
        (Water pipes)   (Remote control)

SUSLOV, M., starshiy nauchnyy sotrudnik

Automatic washing of filters in water-supply structures. Zhil.-komm.
khoz. 9 no.8:3-4 '59.   (MIRA 12:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut vodosnabzheniya,
kanalizatsii, gidrotekhnicheskikh sooruzheniy i inzhenernoy gidro-
logii.
        (Filters and filtration)   (Water-supply engineering)

SUSLOV, M. P.

Automatic washing of gravity and pressure filters and regeneration.
Vod. i san. tekh. no. 9:1-4 S '60.   (MIRA 13:11)
        (Filters and filtration)   (Water—Purification)

SUSLOV, M.P.

Telemechanization of water-supply systems with very long
pipelines. Vod. i san. tekh. no.2:22-24 F '61. (MIRA 14:7)
             (Water-supply engineering)
             (Remote control)

SUSLOV, M.P.

Automation of the washing of open and pressure filters and
the regeneration of cation filters. Prom.energ. 16 no.9:23-
27 S '61.
                                                    (MIRA 14:8)
          (Filters and filtration—Cleaning)

SUSLOV, M.P., inzh.

Redesigning the system of "reverse" water supply with
automatic control. Vod. i san. tekh. no.8:21-22 Ag '62.
(MIRA 15:9)

(Automatic control)
(Water-supply engineering)

SUSLOV, M., inzh.

Reconstruction of the chemical reagent stock in water purification
plants. Zhil.-kom.khoz. 12 no.7:27-28 Jl '62.   (MIRA 16:5)
                            (Water—Purification)

S/119/63/000/001/013/016
D201/D308

AUTHOR: Suslov, M.P.

TITLE: Practical measurement of the thickness of ice form-
               ing at the inner walls of the mains water supply
               pipes

PERIODICAL: Priborostroyeniye, no. 1, 1963, 25

TEXT: This is the description of an instrument, developed
at the VODGYeO Institute. The instrument is essentially a quartz
stabilized oscillator with a capacitive pick-up connected in the
tank circuit. The change in the capacity of the pick-up, which cor-
responds to the thickness of ice layer in the pipe, detunes the tank
circuit. The change in the anode current is measured by a d.c. com-
ponent compensated milliameter in the anode circuit. The mechanical
construction of the pick-up for a 300 mm pipe is given. There are
3 figures.

Card 1/1

S/068/63/000/001/001/004
E071/E136

AUTHORS: Semenova, O.A., Shteyn, A.L., Kotovich, A.T.,
and Suslov, M.P.

TITLE: Experiments on the production of sulphur free benzene

PERIODICAL: Koks i khimiya, no.1, 1963, 41-43

TEXT: In conjunction with the start of production of
caprolactam on the Kemerovskiy khimicheskiy kombinat (Kemerovo
Chemical Combine) the coking works were to develop the production
of sulphur free benzene. On the basis of laboratory work, two
batches of works' benzole containing 0.098-0.116% thiophene and
0.022-0.036% carbon disulphide were washed with 95% sulphuric acid
(two washes), then with alkali and batch distilled. The yield on
the initial benzole fraction was: sulphur free benzene 75.6%,
nitration benzene 14.5%. Wash losses - 9%, distillation losses -
0.9%. Consumption of acid 287 kg/ton and of alkali 12.4/t of the
benzole fraction. Laboratory tests on the purification of benzole
from thiophene by its copolymerization with unsaturated compounds
present in heavy benzole indicated that only low sulphur benzene
can be obtained by this method. The removal of thiophene by

Card 1/2

Experiments on the production of ...   S/068/63/000/001/001/004
                                        I.071/E136

washing with sulphuric acid with addition of cyclohexene
(by-product in the production of caprolactam) was tried on a
laboratory scale with satisfactory results. Using 20% of
sulphuric acid and 1.85% of cyclohexene, practically complete
removal of thiophene was obtained after 10 minutes of stirring.
It is considered that rectification is the most rational method
of removal of carbon disulphide.
There are 4 tables.

ASSOCIATION: Kemerovskiy koksokhimicheskiy zavod
             (Kemerovo Coking Works)

"

Card 2/2

SUSLOV, M.P., kand.tekhn.nauk

Checking the formation of ice inside aqueducts.   Vod.i san.tekh.
no.4:5-8 Ap '63.   (MIRA 16:4)
                    (Ice)   (Water pipes)

SUSLOV, M.P., kand.tekhn.nauk

Mechanization and automation of reagent shops. Prem. energ. 18 no.7:
21-24 Jl '63.   (MIRA 16:9)
                        (Feed water purification)

SUSLOV, Mikhail Pavlovich

[Automating the water supply system in ferrous metallurgy]
Avtomatizatsiia sistem vodosnabzheniia v chernoi metallurgii.
Moskva, Metallurgiia, 1965.   318 p.   (MIRA 18:4)

Study Notes

Operation of the HL-5, 6 rubber pump. Prom. energ. 20 no.3:26-28
Ag '65.
(MIRA 18:8)

SUSLOV, M.F., kand. tekhn. nauk

Automatic inleakage and its effect on the operation of a pump-
ing station. Vod. i san. tekh. no.2:29-32 F '61. (MIRA 18:2)

PROKOPCHUK, B.I.; IZRAILEV, L.M.; IL'IN, P.A.; LEONOV, B.N.; SUSOV, M.V.;
        KOSTRYUKOV, M.S.

    Diamond potential of the Lena Valley; new diamond-bearing area
    in the northeastern part of the Siberian Platform. Trudy IAFAN
    AN SSSR Ser. geol. no.9:115-122 '63.   (MIRA 16:12)

SUSLOV, N.

Following the example of the Gor'kiy people. Sov. profsoiuzy 5 no.9:
49-50 S '57.
(MLRA 10:9)

(Moscow--Housing)

SIVERS, Arkadiy Petrovich; SUSLOV, Nikolay Aleksandrovich; ALEKSANDROVA,
A.A., redaktor; KORUZEV, N.N., tekhnicheskiy redaktor.

[Fundamentals of radar] Osnovy radiolokatsii. Moskva Izd-vo
"Sovetskoe radio, 1956. 246 p.   (MLRA 9:5)
                        (Radar)

DITRIKH, Konstantin Feliksovich; SUSLOV, N.A., spetsred.; SANDLER, N.V.,
    red.izd-va; KOTLYAKOVA, O.I., tekhn.red.

    [Radio receivers] Radiopriemnye ustroistva. Leningrad, Izd-vo
    "Morskoi transport," 1958. 395 p.   (MIRA 12:1)
                    (Radio--Receivers and reception)

SUSLOV, N A.

6(4); 7(7)   PHASE I BOOK EXPLOITATION   SOV/2850

Sivers, Arkadiy Petrovich, Nikolay Aleksandrovich Suslov, and
    Vasiliy Ignat'yevich Metel'skiy

Osnovy radiolokatsii (Fundamentals of Radar) Leningrad, Sudpromgiz,
    1959. 350 p. Errata slip inserted. 25,500 copies printed.

Scientific Ed.: L. D. Gol'dshteyn; Ed.: Ye. N. Shaurak; Tech. Ed.:
    N. V. Erastova.

PURPOSE: This book is intended for radio specialists and students of
    vuzes studying radar. It was approved by the Ministry of Higher
    Education, USSR, as a textbook for radio engineering departments
    of vuzes.

COVERAGE: The authors discuss basic principles of radar. They
    describe pulse, frequency and phase methods of ranging and
    explain methods of determining azimuth and elevation of objects.
    They also analyze errors in measuring coordinates by means of
    radar and discuss factors determining the operating range of

Card 1/9

Fundamentals of Radar   SOV/2850

radar systems. They discuss counter-radar measures and describe
methods of transmitting radar information. Use of radar beacons,
identification systems and systems for selecting moving objects
are also discussed. Chapters II (except Sections 14 and 15),
III (except Section 37), VI, VII and Section 45 of Chapter IV
were written by N. A. Suslov; Chapter VIII, Section 37 of
Chapter III, Introduction and Conclusion by A. P. Sivers;
Chapter IX by V. I. Metel'skiy; Chapter I and Section 13 of
Chapter III by A. P. Sivers and N. A. Suslov; Sections 14 and 15
of Chapter II, Chapter IV (except Section 45) and Chapter V
by A. P. Sivers and V. I. Metel'skiy. The material is based
largely on lectures delivered by the authors in 1950-1957. The
authors thank V. V. Tikhomirov, Corresponding Member of the
Academy of Sciences, USSR, for his help in preparing the
manuscript. They also thank L. D. Gol'dshteyn for reviewing
the text. There are 99 references, all Soviet (including
52 translations).

Card 2/9

9.4200

78151
SOV/108-15-3-14/17

AUTHORS: Vazhenina, Z. P., and Suslov, N. A.

TITLE: Calculation of Impulse Duration of a Phantastron

PERIODICAL: Radiotekhnika, 1960, Vol 15, Nr 3, pp 75-77 (USSR)

ABSTRACT: The purpose of the paper is to determine analytical
             relationships between the control voltage E_o and the
             duration of the output impulse T_u in the phantastron
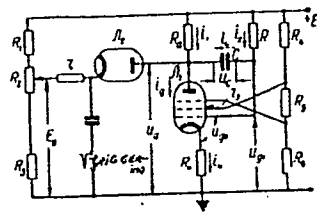   circuit given in Fig. 1.

Fig. 1.

Card 1/4

Calculation of Impulse Duration of a
Phantastron

78151
SOV/108-15-3-14/17

The voltage u_a is given by

$$u_a = [E_0 - \Delta U_{a1} + (\kappa' - 1) E_a + \kappa' E_{g0}] e^{-\frac{t}{\tau_e}} - (\kappa' - 1) E_a - \kappa' E_{g0}. \quad (11)$$

where $\quad \kappa' = \dfrac{R_a S}{1 + (S + S_e) R_\kappa} \quad$ and $\quad \tau_e = RC \left[1 + \kappa' + \dfrac{R_a}{R} \right].$

ΔU_{a1} is voltage jump at the anode at the start of operation; S and S_e are steepnesses of anode and screen currents, respectively; and E_{go} is the cutoff voltage of the first grid. Figure 2 gives the voltage shape on the anode of the phantastron.
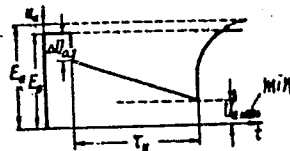
Fig. 2.

Card 2/4

Calculation of Impulse Duration of a
Phantastron

SOV/108-15-3-14/17

When $\tau_u \ll \tau_e$ τ_u becomes

$$\tau_u = \tau_e \frac{E_0 - \Delta U_{a1} - U_{a\,min}}{E_0 - \Delta U_{a1} + (\kappa' - 1) E_a + \kappa' E_{g0}} . \quad (13)$$

which can be further simplified into

$$\tau_u \approx RC \frac{E_0 - \Delta U_{a1} - U_{a\,min}}{E_a} . \quad (14)$$

when only the order of magnitude of the impulse duration is looked for. In Eqs. (13) and (14), $U_{a\,min}$ is given by

$$U_{a\,MIN} = E_a - i_{1\,MAX} R_a .$$

The voltage jump at the anode at the start of operation ΔU_a may be calculated from

$$\Delta U_{a1} = \frac{\kappa' R (E_{g0} + U_{\kappa n}) + R E_0 + R U_{\kappa n} - (R + R_a) E_a}{(\kappa' + 1) R + R_a} . \quad (19)$$

Card 3/4

Calculation of Impulse Duration of a   78151
Phantastron   SOV/108-15-3-14/17

where U_{kn} is cathode voltage in the state of rest. The
values of $1_{1\ max}$ may be found from tube reference sheets.
There are 2 figures; and 3 Soviet references.

SUBMITTED: June 15, 1959

^{D}eystvitel'nyye chleny ^{N}auchno-tekhnicheskogo Obshchestva
radiotekhniki i elektrosvyazi imeni ^{A}. ^{S}. Popova.

Card 4/4

VAZHENINA, Zoya Pavlovna. Prinimal uchastiye SUSLOV, Nikolay
Aleksandrovich; VOLKOVA, I.M., red.

[Phantastron generators; their theory, design, and calcula-
tion] Fantastromnye generatory; teoriia, proektirovanie,
raschet. Moskva, Sovetskoe radio, 1965. 174 p.
                                          (MIRA 18:12)

POPOV, N.V., inzh., retsenzent; PETUKHOV, P.Z., doktor tekhn.nauk,
    retsenzent; SUSLOV, N.I., inzh., red.; DUGINA, N.A., tekhn.
    red.; UVAROVA, A.F., tekhn.red.

[Developing the use of plastics in the manufacture of machines]
Rasshirenie vozmozhnostei primeneniia plastmass v konstruktsiiakh
mashin. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry,
1959. 183 p.   (MIRA 13:3)
            (Plastics)   (Machinery industry)

PODSHIVALOV, R.N.; SUSLOV, N.I.; KOVALENKO, A.V., inzh., red.;
DUGINA, N.A., tekhn.red.

[Machine parts made of capron] Kapronovye detali mashin.
Pod red. A.V.Kovalenko. Moskva, Mashgiz, 1961. 39 p.
(MIRA 15:2)

(Nylon)   (Machinery--Construction)

SUSLOV, Nikolay Ivanovich; PLUTALOV, L.V., retsenzent; BOGOSLAVETS,
N.P., tekhn. red.

    [Plastic materials as substitutes for metals]Zamena metallov
plastmassami. Moskva, Mashgiz, 1962. 201 p. (MIRA 15:8)
            (Metals, Substitutes for) (Plastics)

PHASE I BOOK EXPLOITATION   SOV/6077

Suslov, Nikolay Ivanovich

Zamena metallov plastmassami (Substituting Plastics for Metals) Moscow,
   Mashgiz, 1962. 201 p.   22,000 copies printed.

Reviewer: L. V. Plutalov; Tech. Ed.: N. P. Bogoslavets; Exec. Ed. (Ural-
   Siberian Division, Mashgiz): T. M. Somova, Engineer.

PURPOSE: This book is intended for technical personnel in the machine and plas-
   tics industries.

COVERAGE: The book reviews problems in the substitution of plastics for metals
   in standard machine elements. Plastic parts are classified according to purpose
   and structural conditions. [For example, a part designated AN is intended for
   use in aggressive, high-temperature, or liquid media (A), under conditions of
   loading (N). An extensive table (pp. 8-33) includes materials of "A" classifica-

Card 1/8 Z

Substituting Plastics for Metals

tion.] Methods of preparing parts from cast or molded materials or from finished plastics are described. The discussion also includes such specialized methods as vacuum forming, spraying, and coating of articles with polymers in fluidized beds. Practical recommendations on constructing press molds, on determining the effective construction of parts, and on choosing the strength, technical parameters, and methods of manufacture of plastic machine elements are given. No personalities are mentioned. There are 21 references, all Soviet.

TABLE OF CONTENTS [Abridged]:

Card 2/7

Nonmetallic Materials (Cont.)   SOV/6417

Trade names, GOST designations, properties, and applications
are given in tabular form for plastics, adhesives, varnishes,
dyes, oils, and chemicals. The book deals primarily with
plastics, which are divided into seven classes.   Chapter I
was compiled by Engineer N.I.Suslov; Chapter II, by Candidate
of Technical Sciences A.D.Grigor'yev and Engineer I.V.Pimenov;
Chapter III, by Engineer V.I.Susorova; Chapter IV, by Engineers
E.P.Krestnikov, V.I.Morotskaya, and T.V.Basargina; and Chapter V,
by Engineer P.A. Zaytsev.   There are 84 references: 83 Soviet
and 1 English.

TABLE OF CONTENTS:

Card 2/3

SUSLOV, N.N., kand.tekhn.nauk.

  Measuring pressure of the beater on a strand of yarn in picking
  machines. Tekst.prom. 17 no.12:13-15 D '57. (MIRA 11:1)

   1.Dotsent Kostromskogo tekstil'nogo instituta.
       (Spinning machinery)

SUSLOV, N.N.

Investigating air currents in the scutching area of double-action flax machines. Izv. vys. ucheb. zav.; tekh. tekst. prom. no. 3:47-61 '58.   (MIRA 11:7)

1. Kostromskiy tekstil'nyy institut.
       (Textile factories--Heating and ventilation)
                         (Flax)

SUSLOV, N.N.

      Required capacity for scutching drums. Izv. vys. ucheb. zav.;
      tekh. tekst. prom. no. 3:75-81 '58.   (MIRA 11:7)

      1. Kostromskiy tekstil'nyy institut.
                        (Textile machinery)

SUSLOV, N. N.

Experimental investigation of flax fiber tension during scutching on a double action machine. Izv.vys.ucheb.zav.; tekh.tekst.prom. no.4:50-60 '58.   (MIRA 11:11)

1. Kostromskoy tekstil'nyy institut.
                    (Flax--Testing)

SUSLOV, N.N.

For a further lowering of construction costs. Transp. stroi. 8
no.11:20-22 N '58.   (MIRA 12:1)

1.Nachal'nik tresta Sevzapmorgidrostroy.
                    (Construction industry--Costs)

SUSLOV, Nikolay Nikolayevich; LEVITSKIY, Igor' Nikolayevich; MAKEYEVA, V.S., red.; SEGAL', N.M., red.; MEDVEDEV, L.Ya., tekhn.red.

[Equipment assembly and repair in enterprises for the primary processing of bast fibers] Montazh i remont oborudovaniia zavodov pervichnoi obrabotki lubianykh volokon. Moskva, Gos. nauchno-tekhn.izd-vo lit-ry po legkoi promyshl., 1959. 287 p. (MIRA 13:4)

(Textile machinery)

SUSLOV, N.N.; BARBAKOV, M.M.

Using an electric strain gauge for the study of the breaking process. Izv.vys.ucheb.zav.; tekh.tekst.prom. no.1:75-78 '59.
(MIRA 12:6).

1. Kostromskoy tekstil'nyy institut.
(Strain gauges)
(Textile machinery—Testing)

SUSLOV, N.N.; TURILOVA, I.A.

    Analysis of phenomena occuring in the roller card of the TG-135-L shaker machine. Izv.vys.ucheb.zav.; tekh.tekst.prom.
no.6:23-29 '59.
                                       (MIRA 13:4)

    1. Kostromskoy tekstil'nyy institut.
             (Flax processing machinery)

SUSLOV, N.N.; BARBAKOV, M.M.

    Forces acting on the material in the crushing area of the fluted rollers
of the breaker. Izv.vys.ucheb.zav.;tekh.tekst.prom. no.4:50-54 '60.
                                                 (MIRA 13:9)

1. Kostromskoy tekstil'nyy institut.
               (Flax processing machinery)

MARKOV, Valentin Vasil'yevich; SUSLOV, Nikolay Nikolayevich; TRIFONOV, Vadim Georgiyevich; ANDREYEV, V.V., retsenzent; ARIFKHANOV, U.Kh., retsenzent; ARNO, A.A., retsenzent; DERBENEV, S.I., retsenzent; SHUSHKIN, A.A., retsenzent; MAKEYEV, V.S., nauchnyy red.; DUKHOVNYY, F.N., red.; SHAPENKOVA, T.A., tekhn. red.

[Primary processing of bast fibers] Pervichnaia obrabotka lubianykh volokon. Moskva, Gos. izd-vo "Rostekhizdat," 1961. 463 p.
(MIRA 15:4)
(Textile fibers)   (Textile machinery)

SUSLOV, N.N.

Energy expended by scutchers for flax scutching. Izv. vys.ucheb.zav.;
tekh.tekst.prom. no.6:136-139 '61.   (MIRA 15:1)

1. Kostromskoy tekstil'nyy institut.
                    (Textile machinery--Testing)

SUSLOV, N.N.

Dependence of the percentage of fiber yield from the machine
upon the number of actions and the speed of the movement of the
beater blades in flax scutching. Izv.vys.ucheb.zav.; tekh.tekst.
prom. no.1:39-48 '63.   (MIRA 16:4)

1. Kostromskoy tekhnologicheskiy institut.
                        (Flax processing machinery)

SUSLOV, N.Ya., inzhener.

Simplification and standardization of road machinery instituted by the Minsk Central Design Office of the Main Administration of Road Machinery Construction. Stroi. i dor. mashinostr. 1 no.4:15-17 Ap '56.   (MIRA 10:1)

(Road machinery--Standards)

ACCESSION NR: AP4043530

AUTHOR: Suslov, O. N. (Moscow)

TITLE: The motion of a flat plate with supersonic viscous flow in the presence of a transverse magnetic field

TOPIC TAGS: fluid mechanics, gas dynamics, supersonic flow, viscous flow, magnetic field, heat emission, boundary layer, shock wave

ABSTRACT: A solution is presented for the problem of flat plate motion through a viscous gas at supersonic speed, taking into account the interaction of the shock wave with the boundary layer and also considering the presence of a transverse magnetic field. The first flow region considered was nonviscous flow. Starting with the equations of gas dynamics (in two dimensions), the gas equation of state, shock wave boundary conditions, and the equation describing the shock wave, the author derived the expressions

$$\frac{p}{p_0} = p^* = q_0 \left(\frac{x}{L}\right)^{-1/4} + q_1 + O\left[\left(\frac{x}{L}\right)^{1/4}\right],$$

$$\frac{v_s}{U} = 0.444 \, \theta x^{-1/4} \left[1 + x^{1/4}\left(5.498a - \frac{5.218}{M^2 a^4}\right) + \cdots\right]$$

Card 1/2

ACCESSION NR: AP4043530

relating stream velocity U, pressure p_0 (ambient) and p (disturbed), with the shock wave equation. In the expressions, M = $U/\propto_0 \gg 1$ indicates supersonic speed ($\propto_0$ = speed of sound), x and y are coordinate directions, and

$$q_1 = 0.393 M^2 v^2 (6.984 \alpha - 4.778/M^2 0^2), \quad q_0 = 0.393 M^2 0^2 L^{-1/2},$$

where ϑ and $\propto$ are parameters of the shock wave equation as derived by S. I. Pay and S. R. Shen (Obtekaniye naklonnogo klina giperzvukovy*m vyazkim potokom pri nalichii teploobmena. V sb. "Problema pogranichnogo sloya i voprosy* teplootdachi." Gosenergoizdat, 1960). The existence of the magnetic field is introduced mathematically, and relationships are derived describing the boundary layer of flow. Considerations of gas conductivity, temperature, and heat emission functions are included. The dependence of local surface friction and heat emission coefficients upon distance are plotted with various conditions of temperature function, density, gas conductivity, and magnetic field intensity as parameters. Orig. art. has: 42 equations and 3 figures.

ASSOCIATION: none

SUBMITTED: 16Mar63   ENCL: 00

SUB CODE: EM, ME   NO REF SOV: 001   OTHER: 001

Card 2/2

SUSLOV, O.N.

Calculating the strengthening of welded joints of metal elements
by hard facing under pressure. Prom. stroi. 41 no.6:27-30 Je '64.
(MIRA 17:9)

L 5374-66

ACC NR: AP5024581   SOURCE CODE: UR/0292/65/000/009/0035/0036

AUTHOR: Kraytsberg, M. I. (Candidate of technical sciences); Oskerko, B. F.(Engr.);
Suslov, O. N. (Engr.); Kaganovskiy, S. A. (Engr.)

ORG: none

TITLE: Electric-power generator with reciprocating motion

SOURCE: Elektrotekhnika, no. 9, 1965, 35-36

TOPIC TAGS: electric power generator, reciprocating generator

ABSTRACT: The principle of operation of the electric-power generator with a
reciprocating motion is explained. Some experimental datae obtained from a 500-w
laboratory model of a variable-reluctance generator are reported. These findings
are offered: (1)Unlike in the conventional a-c generators, the emf and maximum
output power in a variable-reluctance reciprocal generator increase up to an
optimal point and then fall off with the increasing excitation current; (2) There is
an optimal value of the height of the moving core which corresponds to a maximum
output power; (3) The generator capacity is proportional to the fill factor of the
moving core; (4) With the fill factor exceeding a certain value, the relation

Card 1/2   UDC: 621.313.12

L 5374-66
ACC NR: AP5024581

between the position of the moving core and the resulting flux becomes nonlinear
which causes considerable ripple in the excitation current; (5) At 33 cps, the
required amount of active materials is high; hence, generators designed for
75-100 cps deem desirable. Orig. art. has: 4 figures, 3 formulas, and 1 table.

SUB CODE: EE/   SUBM DATE: 00/   ORIG REF: 000/   OTH REF: 000

Card 2/2

L 32814-66   EWT(m)/EWP(v)/EWP(k)/T/EWP(t)/ETI   JD/HM

ACC NR: AR6005806

SOURCE CODE: UR/0137/65/000/010/E004/E004

AUTHOR: Suslov, O. N.

TITLE: Determination of the plasticity zone in a weld reinforced by surfacing under load

SOURCE: Ref. zh. Metallurgiya, Abs. 10E26

REF SOURCE: Sb. Inzh. konstruktsii Dokl. k XXIII Nauchn. konferentsii. Leningr. inzh.-stroit. in-ta. L., 1965, 48-51

TOPIC TAGS: plasticity, seam welding, welding, welding technology, metal surfacing

ABSTRACT: On the basis of the thermal-processing theory developed by N. N. Rykalin, corresponding member, AN SSSR, problems of determining the plasticity zone of a weld reinforced by surfacing under a load have been investigated with calculation of the dependence of the plasticity zone on welding conditions and thermophysical characteristics of the weld. F. Fomenko. [Translation of abstract.]   [NT]

SUB CODE: 11/, SUBM DATE: none

Card 1/1

UDC: 621.791.001:536.12:621.791.75

SUSLOV, O. V.

"Utilization of the Circuit Currents Method for Detecting Short Circuits in Complex
Circuit," Elek. Stan., No. 3, 1949; "Combination Circuit for the Automatic Connection
of Reserve Power (AVR) and Automatic Reclosing (AFV) for Use in Electric Power Stations,"
ibid, No. 7, 1950.

SUSLOV, O. V.

USSR/Electricity - Automatic Equipment   Jul 50
                    Power Stations

"Combination Circuit for the Automatic Connection
of Reserve Power (AVR) and Automatic Reclosing
(APV) for Use in Electric Power Stations," O. V.
Suslov, Engr

"Elek Stants" No 7, pp 41-43

Describes present operating system in which the
AVR functions on all occasions when bus bars are
disconnected for internal use, including case
where they are short circuited. Points out
dangers of this system and proposes new system

162T28

PA 162T28

USSR/Electricity - Automatic Equipment   Jul 50
                    (Contd)

where the AVR and APV are used in combination. Edi-
tor notes such a system is recommended in "Instruc-
tional Handbook of the Technical Division, Ministry
of Electric Power Plants, Electrical Section,"
Gosenergoizdat, 1950.

162T28

SUSLOV, O.V., inzhener.

    Synchronizing scheme for line switches. Elek.sta. 24 no.7:36-37 Jl '53.
                                        (MLRA 6:7)
                        (Electric switchgear)

SUSLOV, O. V.

Suslov, O. V. -- "Filter Reactance (Interference) Elimination." Min Higher
Education USSR, Moscow Order of Lenin Power Engineering Inst imeni
V. M. Molotov, Moscow, 1954 (Dissertation for the Degree of Candidate
in T$_e$chnical Sciences)

SO: Knizhnaya Letopis', No. 23, Moscow, Jun 55, pp 87-104

Suslov, O.V.

AID P - 2070

Subject   : USSR/Electricity

Card 1/1 Pub. 26 - 12/29

Author   : Suslov, O. V., Eng.

Title   : Nomogram determining the maximum load of a transmission
                line in accordance with the distance protection level

Periodical: Elek. sta., 4, 40-42, Ap 1955

Abstract   : The article shows the use of the nomogram for determining
                the value of load-current for setting protective relays.
                Two diagrams are given.

Institution: None

Submitted   : No date

SUSLOV, O.V., kand. tekhn. nauk.; FILIN, S.M., inzh.

Self-starting of auxiliary-supply electric motors during the automatic
switching of standby power. Elek. sta. 29 no.10:89-92 O '58. (MIRA 11:11)
(Electric motors)

SUSLOV, O.V., kand.tekhn.nauk

Utilization of the N-11 automatic oscillograph in power systems.
Elek.sta. 29 no.11:86-87 N '58.   (MIRA 11:12)
                          (Oscillograph)

SUSLOV, O.V., and tekhn.nauk

      Evaluation of the unbalance currents in the differential protection
      of electric transformers. Elek.sta.33 no.1:87 Ja '62. [MIRA 15:3)
             (Electric transformers)(Electric protection)

SUSLOV, O.V., kand.tekhn.nauk

Choice of electric current protection systems with consideration
of the self-starting features of the load. Elek. sta. 33 no.4:72-74
Ap '62.   (MIRA 15:7)
(Electric protection) (Electric power distribution)

SUSLOV, O.V., kand.tekhn.nauk

Faulty operation of high-voltage busbars. Elek. sta. 35 no.
4:83-84 Ap '64.   (MIRA 17:7)

SUSLOV, O.V., kand. tekhn. nauk

    Measures for partial phase disconnection of units. Elek.
sta. 36 no.9:40-42 S '65.   (MIRA 18:9)

SUSLOV, O.V., kand.tekhn.nauk

    Defects of the overvoltage protection circuits of power transformers.
    Elek. sta. 36 no.10:83 O '65.

                                (MIRA 18:10)

VIGIN, V. K.

Textile industry and fabrics

Adjustable patterns in making calico., Tekst. prom., no. 2, 1952.

9. Monthly List of Russian Accessions, Library of Congress, _____March_____1953, Uncl.
                                                                        2

SUSLOV, P. G.

Bee Culture

ꓘEstablishing two-body beehives Pchelovodstvo 29, no. 6, June 1952.

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

SUSLOV, P.V.

BOGUSLAVSKIY, B.L.; ROSTOVTSEV, I.A., inzhener, laureat Stalinskoy premii,
     retsenzent; RUKOVISHNIKOV, V.I., inzhener, retsenzent; OKHLYAND,
     A.B., inzhener, nauchnyy redaktor; SUSLOV, P.V., inzhener, redaktor;
     RAKOV, S.I., tekhnicheskiy redaktor

[Automatic and semiautomatic lathes] Tokarnye avtomaty i poluavto-
maty. Moskva, Vses. uchebno-pedagog. izd-vo Trudrezervizdat, 1954.
367 p.   (MLRA 7:10)
          (Lathes)

SUSLOV, P.V.

RASKATOV, A.I., dotsent; GALKIN, Yu.M., dotsent, kandidat tekhnicheskikh
nauk, retsenzent; YEGOROV, V.V. [deceased], dotsent, kandidat tekh-
nicheskikh nauk, retsenzent; KHLEBODAROV, S.F., inzhener, retsenzent;
MAYKOPAR, M.B., dotsent, kandidat tekhnicheskikh nauk, nauchnyy re-
daktor; KOPTEVSKIY, D.Ya., redaktor; SUSLOV, P.V., redaktor literatu-
ry po metalloobrabatyvayushchim professiyam, inzhener; RAKOV, S.I.,
tekhnicheskiy redaktor.

[Problems in electrical engineering, electrical measurement, electric
machinery, and electrical equipment] Zadachnik po elektrotekhnike,
elektricheskim izmereniiam, elektricheskim mashinam i elektrooboru-
dovaniiu. Moskva, Vses.uchebno-pedagog. izd-vo Trudrezervizdat, 1954.
413 p.   (MLRA 7:11)
        (Electric engineering--Problems, exercises, etc.)

SUSLOV, Petr Vasil'yevich,inzhener — mekhanik; TURCHANIHOV, A.A.,
inzhener, redaktor; UVAROVA, A.F.,tekhnicheskiy redaktor

[Forges and presses] Kuznechno-pressovoe oborudovanie. Moskva,
Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1956. 420 p.
(MLRA 10:4)

(Forging machinery)

VINOGRADOV, Nikolay Vladimirovich; SUSLOV, B. K., redaktor; OSTRIROV, N.S.,
tekhnicheskiy.redaktor.

[Electrician for repairing and installing industrial electrical
equipment] Elektroslesar' po remontu i montazhu promyshlennogo
elektrooborudovaniia. Izd.3-e, perer.i dop. Moskva, Vses.uchebno-
pedagog.izd-vo Trudrezervizdat, 1957. 271 p.   (MIRA 10:10)
                        (Electric engineering)

MEDVEDYUK, Nikolay Ivanovich; SUSLOV, Petr Vasil'yevich

[Collective farm smith; with qualifications of mechanic, tinsmith, and coppersmith] Kolkhoznyi kuznets; s kvalifikatsiei slesaria, zhestianshchika i mednika. Moskva, Trudrezervizdat, 1959. 346 p.
(MIRA 13:7)

(Blacksmithing)

L 42033-65

ACCESSION NR: AP5010955

UR/0286/65/000/007/0133/0134

AUTHORS: Sumarokov, L. N.; Popov, Yu. A.; Suslov, R. M.

TITLE: Parallel summator. Class 42, No. 169886

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 7, 1965, 133-134

TOPIC TAGS: summator

ABSTRACT: This Author Certificate presents a parallel summator (see Fig. 1 on the Enclosure). To reduce the summation time, it contains a transfer network in two groups, each consisting of two transfer lines. The summator digits corresponding to these groups, which are necessary for performing the digital operations under the stored codes, are connected to the transfer lines. The number of codes in the lines for each group corresponds to the cases of the presence and absence of the transfer signal into the lowest digit of this group. The leading digits of the transfer lines of all groups are connected to the inputs of logic circuits for code selection from the corresponding transfer line of the following group. Orig. art. has: 1 diagram.

ASSOCIATION: none

Card 1/2   SUBMITTED 11 Jul 63

SUSLOV, S.A.

Device for grooving nails. Sel'khozmashina no.6:32 Je '57.
(MIRA 10:7)

(Nails and spikes)

1. SUSLOV, S. A.

2. USSR (600)

4. Honeysuckle

7. Rapid stratification of Tatar honeysuckle seed, Les. khoz. 6 No. 1, 1953

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

1. SUSLOV, S. A.

2. USSR (600)

4. Painting, Industrial

7. Mechanized spatula.   Stan. 1 instr. 23 no. 11, 1952.

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

SUSLOV, S. A.

Chucks

Draw-in chuck for lathes. Sel'khozmashina No. 6, 1952

Monthly List of Russian Accessions, Library of Congress, September 1952 UNCLASSIFIED

1. TUGLOV, S. A

2. USSR (600)

4. Drilling and Boring Machinery

7. Countersink with an internal guide. Sel'khozmashina No. 3, 1953.

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

SUSLOV, S.A.

New method of reconditioning hard-alloy reamers and countersinks. Sel'khoz-
mashina no.9:31 S '53.   (MLRA 6:9)
                                    (Reamers) (Grinding and polishing)

SUSLOV, S.A.

Damping the vibration in the vertical cutting of long threads.
Sel'khozmashina no.8:29-31 Ag '56.   (MLRA 9:10)

(Screw cutting)

PA - 2138

AUTHOR:

TITLE:

SHEVCHIK,V.N., SUSLOV,S.A., ZHARKOV,YU.D.
On the Investigation of a Special Type of reflecting Clystron
(Issledovaniya otrazhatel'nogo klistrona spetsial'nogo tipa.
Russian).

PERIODICAL:
Zhurnal Tekhn. Fiz., 1957, Vol 27, Nr 2, pp 377 - 386 (U.S.S.R.)
Received: 3 / 1957   Reviewed: 4 / 1957.

ABSTRACT:

The present work deals with the theoretical and experimental
investigation of a special type of reflecting clystron which
works with large angles of flight in the space of interaction.
First the efficiency of the clystron is dealt with. Computation
of efficiency must be carried out in consideration of the modu-
lation of current density. The general equation for active effec-
tivity φ is derived. If, however, the modulation of the current
according to density is neglected, a formula is in this case ob-
tained, which is generally regarded as basic for the theory of
the reflecting clystron and which, in the case of the neglect of
the modulation with respect to density in the resonator, can be
used for determining efficiency. For large angles of flight, i.e.
if modulation according to density is considerable, the first
general formula must be used. Besides the "clystron-effect",
which is determined by these equations, also the so-called diode-
effect must be taken into account when computing efficiency,
which is connected with the output or yield of high frequency

Card 1/2