

KABANOV, H.I.

Geometric theory of a simple singular variational problem for
($n - 1$)-multiple integrals. Trudy Sem.po vekt.i tens.anal.
no.12:239-268 '63. (MIRA 16:6)
(Calculus of variations) (Integrals, Multiple)

PENZOV, YuYe.; RZHEKHINA, N.F.; GOKHMAN, A.V.; KABANOV, N.I.; KONOPLEVA,
Yu.K.; LOSIK, M.V.; SPIVAK, M.A.; ZARETSKAYA, N.V., red.

[Problems in vector algebra] Sbornik zadach po vektornoj
algebre. Saratov, Izd-vo Saratovskogo univ., 1964. 59 p.
(MIRA 18:4)

L 26400-66 EEC(k)-2/EWA(h)/EWT(d)/EWT(1)/FCG/FSS-2 GW/WS-2/WR

ACC NR: AM5025513

Monograph

UR/

50
B+1

Kabanov, Nikolay Ivanovich; Osetrov, Boris Ivanovich

Ionospheric obliquis-incidence ^gbackscatter (Vozvratno-naklonnoye zondirovaniye ionosfery) Moscow, Izd-vo "Sovetskoye radio", 1965. 112 p. illus., biblio., 4500 copies printed.

TOPIC TAGS: radio wave propagation, ionospheric sounding, ionospheric propagation critical frequency, radar, over the horizon radar, oblique incidence backscatter

PURPOSE AND COVERAGE: This book is intended for engineers in radio centers, radio specialists dealing with short-wave propagation, and students in advanced and secondary schools. Some results of experimental investigations of the phenomenon of the distant oblique-incidence backscattering of short radio waves from the ground and a method of oblique sounding of the ionosphere using this phenomenon are covered. Some of the principles as well as information on the practical application of this method and the zones of radar visibility (ground-ionosphere-ground) for the 500--1000 and 3000--6000-km ranges and farther are presented. The equipment and antennas used for sounding are described. N. B. Voloshina, N. N. Korilova, Yu. A. Mishchenko, E. I. Ginzburg, B. A. Grokhotova, A. P. Udaltsov, V. P. Chernyshev, and I. B. Yukovkin participated in writing the book. References.

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UDC: 621.371.333

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Card 2/3

Card 3/3

KABANOV N. M.

PA 17T44

USSR/Medicine - Biology
Medicine - Water

Jul 1947

"A Meeting on the Problems of Hydrobiology of the
Continental Waters of the USSR," N. M. Kabanov, 3 pp

"Gigiyena i Sanitariya" Vol XII, No 7

Very brief account of three groups of reports:
1) basic problems of hydrobiology; 2) reviews of the
general situation; 3) separate subjects and problems.
Mentions many names of personnel and institutions.

17T44

KABANOV, N. M.

PA 70T96

USSR/Medicine - Hygiene and Sanitation May 1948
Medicine - Epidemiology

"All-Union Hydrobiological Council," N. M. Kabanov,
p

"Gig i San" Vol XIII, No 5

First meeting of the new scientific council was held
22 Dec 1947. On 27 Feb 1948 the council of hygien-
ists met. Very interesting article by T. Ye. Baldy-
rev was read, "The Basic Trends and Pending Tasks
for the VGSi and the Sanitary-Antiepidemiological
Administration of the Ministry of Public Health USSR
for 1948."

70T96

KABANOV, N.M.

Materials on the flow of organic matter in the Volga River near
Kuybyshev. Trudy probl. i tem. sov. no.7:95-100 '57. (MLRA 10:4)
(Volga River--Organic matter)

USSR/General Biology. General Hydrobiology.

B-6

Abs Jour : Ref Zhur-Biol., No 16, 1958, 71683

Author : Drachev, S. N., Kabanov, N. M., Sologub, A. N.
Inst : Moscow Society of Naturalists.
Title : The Influence of Underwater Vegetation on the
Quality of Water.

Orig Pub : Byul. Mosk. o-va ispyt. prirody. Otd. biol.,
1957, 62, No 2, 81-88

Abstract : Laboratory tests and observations of reser-
voirs showed that underwater organic substan-
ces, such as soil humates, herbaceous and tree
vegetation, impair the quality of the water,
decrease its transparency, increase the color
and contribute to odor and taste. The charac-
teristics are analysed of the influence on the

Card : 1/2

KABANOV, N.M.

Spreading of aquatic vegetation in Klyaz'ma Reservoir. Trudy
Gidrobiol. ob-va 9:175-182 '59. (MIRA 12:9)

1. Institut obshchey i kommunal'noy gigiyeny Akademii meditsinskikh
nauk SSSR.

(Klyaz'ma Reservoir--Fresh-water flora)

DRACHEV, S.M., prof.; RAZUMOV, A.S.; SKOPINTSEV, B.A.; KABANOV, N.M.;
BRUYEVICH, S.V.; SOSUNOVA, I.N.; GOLUBEVA, M.T.; BRUK, Ye.S.;
MOGILEVSKIY, Ye.A.; RUPPEL', M.A.; KORSH, L.Ye.; ANOKHIN, V.L.;
BYLINKINA, A.A.; MEL'NIKOV, Ye.B., red.; BEL'CHIKOVA, Yu.S., ..
tekhn.red.

[Methods of studying waters from the point of view of sanitation]
Priemy sanitarnogo izucheniia vodoemov. Pod red. S.M.Dracheva.
Moskva, Gos.isd-vo med.lit-ry, 1960. 354 p.

(MIRA 13:11)

(Water--Analysis)

KONONOVA, Ye.F., kand.tekhn.nauk; KABANOV, N.M., kand.biologicheskikh nauk;
LYSGOROVA, I.K., mladshiy nauchniy sotrudnik

Sanitary characteristic of the deep discharge of industrial waste
waters into a reservoir. Gig.i san. 25 no.8:13-18 Ag '60.

(MIRA 13:11)

1. Iz Instituta obshchey i kommunal'noy gigiyeny imeni A.N.Sysina
AMN SSSR.

(WATER POLLUTION)

DRACHEV, S.M., prof.; VERTEBNAYA, P.I.; IZ'NYUROVA, A.I.; KABANOV, N.M.;
KOLTUNOVA, A.S.; BYLINKINA, A.A.; IZMEROV, N.F., red.; BEL'CHIKOVA,
Yu.S., tekhn. red.

[Sanitation problems of the supply and utilization of water in arid
districts]Gigienicheskie voprosy khoziaistvenno-pit'evogo vodosnab-
zheniia i vodopol'zovaniia v zasushliviikh raionakh. Moskva, Medgiz,
1961. 206 p.

(Water supply)

(MIRA 14:11)

KABANOV, N.M.

Chemical and sanitary biological role of macrophytes in Klyaz'ma Reservoir. Trudy Gidrobiol. ob-va 11:361-369 '61. (MIRA 15:1)

1. Institut obshchey i kommunal'noy gigiyeny Akademii meditsinskikh nauk SSSR, Moskva.

(KLYAZ'MA RESERVOIR--FRESH-WATER FLORA)
(WATER--OXYGEN CONTENT)

GUBAR', M.A.; KORSH, L.Ye. KABANOV, N.M.; VOROB'YEVA, R.V.; GASILINA, M.M.;
DZHUMAYEV, K.D.; IVANTSOV, K.F.; OVEZOV, A.O. Prinimali uchastiye:
BYLINKINA, A.A.; YELAKHOVSKAYA, N.P.; LISICHKINA, T.I.

Hygienic characteristics of economical drinking water sources
in districts of the Murgab Oasis. Zdrav. Turk. 7 no.5:28-32 (41)
May '63. (MIRA 16:8)

(OASIS REGION—DRINKING WATER)

KABANOV, N.M.

Some problems of the relationship between invertebrates and
hydrophytes in Klyaz'ma Reservoir. Trudy Gidrobiol. ob-va
14:248-251 '63. (MIRA 17:6)

1. Institut obshchey i kommunal'noy gigiyeny imeni A.N. Sysina
AMN SSSR, Moskva.

KABANOV, N. N.: Master Phys-Math Sci (diss) -- "Some problems in Karateodori's geometric theory of transformations in the variational calculus". Saratov, 1959. 8 pp (Saratov State U im N. G. Chernyshevskiy), 130 copies (KL, No 12, 1959, 125)

AVERIN, Ivan Vasil'yevich; KABANOV, Nikolay Nikitich; VILL', V.I.,
inzh., retsenzent; SHRAYMAN, I.B., inzh., red.; LEYKINA, T.L.,
red. izd-va; KAPLANSKIY, Ye.F., tekhn. red.

[Friction welding in the manufacture of tools; from practices
of the Sestroretsk Tool Manufacturing Plant named after Voskov]
Svarka treniem v instrumental'nom proizvodstve; iz opyta Sestro-
retskogo instrumental'nogo zavoda imeni Voskova. Moskva, Mash-
giz, 1962. 72 p. (MIRA 15:12)
(Leningrad--Tool and die industry) (Tools--Welding)

ZAGRETSKIY, Pavel Pavlovich; KHARCHENKO, Konstantin Simonovich;
KISELEV, B.M., *retsensent*; KABANDV, N.N., *red.*; CHFAS,
M.A., *red. izd-va*; BARDINA, A.A., *tekhn. red.*

[Technological processes of high-precision machining] Tekhnologiya slozhnykh lekal'nykh robot. Moskva, Mashgis, 1963.
166 p. (MIRA 16:5)

(Machine-shop practice)

15(2)

AUTHORS: Zherebin, S. I., Kabanov, N. P. SOV/72-59-3-12/19

TITLE: Practical Use of Tar for the Carburetion of Generator Gas in Glass Melting Furnaces (Prakticheskoye primeneniye smoly dlya karbyuratsii generatornogo gaza v steklovarenykh pechakh)

PERIODICAL: Steklo i keramika, 1959,¹⁶ Nr 3, pp 38-41 (USSR) MR

ABSTRACT: In 1954 the authors of the present paper with other collaborators of the Gor'kovskiy zavod (Gor'kiy Factory) recommended to concentrate the generator gas by products of tar pyrolysis. The purpose was to improve the quality of generator gas, to save on fuel and to stabilize thermal conditions. Bitumen is a waste product of peat gasification and is not suitable for chemical processing. The scheme of the tar introduction may be seen from figure 1. Pre-heated tar is by means of a pump conveyed to the gas generators through water-cooled mechanical pulverizers (Fig 2). In the generators it is mixed with the gas thus increasing its heating coefficient. Control of the pulverizers is done from the working place of the glass melter (Fig 3). Tar is heated in the tank (Fig 4) and pumped on by means of a gear pump of the RZ-3 type.

Card 1/2

Practical Use of Tar for the Carburation of
Generator Gas in Glass Melting Furnaces

SOV/72-59-3-12/19

Equipping and operating costs of the device are low. The device was installed in 1955 for the first time and was later on improved, as is accurately described. In the case of tar shortage, it can be replaced by fuel oil. There are 4 figures.

ASSOCIATION: Gor'kovskiy stekol'nyy zavod (Gor'kiy Glass Factory)

Card 2/2

BORISOV, B.I.; IGNATOVA, V.A.; KABANOV, N.P.; TERMAN, V.B.; SHUMILINA, V.I.;
NAZAROVA, N.A.; OKAL'NIK, G.N.; POPOV, M.I.

Improving the quality of the surface of sheet glass by electric
heating of the air in the chamber under the vertical drawing
machinery. Stek. i ker. 19 no.2:11-14 F '62. (MIRA 15:3)
(Glass furnaces)

KABANOV, N.P.

Shaped glass is a new efficient building material. Stek. i ker.
22 no.4:23-25 Ap '65. (MIRA 18:5)

1. Direktor Borskogo stekol'nogo zavoda imeni M.Gor'kogo.

KARANOV, N.P.

Profile glass is an effective structural material. Prom.stroi. 42
no.2:22-24 '65. (MIRA 18:4)

1. Direktor Borskogo stekol'nogo zavoda im. M.Gor'kogo.

GELIMAN, A. G., Prof., KARANTOV, N. S.

Dr. Technical Sci.

"Automatic joint welding by fusing chrome molybdenum pipe," Avtogen. Delo, No. 6, 1949.

KASHIN, N. S.

"Investigation of the Automatic Butt
Welding of Pipe Made of Carbon and
Chrome-Molybdenum Steels." Thesis for
degree of Cand. Technical Sci. Sub 25
Dec 50, Central Sci Res Inst of Tech-
nology and Machine Building

Summary 71, 4 Sep 52, Dissertations Presented
for Degrees in Science and Engineering in Moscow
in 1950. From Vechernyaya Moskva. Jan-Dec 1950.

KABANOV, N.S.

USSR/Engineering - Welding, Processes

Nov 51

"Nature and Role of Fusion Process in Butt Welding," Prof A. S. Gel'man, Dr
Tech Sci, TsNIITMASH, K. P. Imshennik, Cand Tech Sci, VNII MSS, N. S. Kabanov,
Cand Tech Sci, TsNIITMASH

"Avtogen Delo" No 11, pp 11-15

Discusses results of studying fusion process with rapid motion-picture camera
~~frames~~ and oscillograph. Establishes formation of molten metal bridges and
determines existence time of each bridge as equal to 0.002 sec. Welding zone, as
was observed, contains considerable amts of CO and CO₂ in atm, which factors,
combined with sharp decrease in O content, protect surfaces of molten metal
against oxidation.

200763

GEL'MAN, A.S., doktor tekhnicheskikh nauk, professor; SERGEYEV, N.P., inzhener, retsenzent; KABANOV, N.S., kandidat tekhnicheskikh nauk, redaktor; POPOVA, S.M., tekhnicheskiiy redaktor.

[Technology of resistance electric welding] Tekhnologiya kontaktnoi elektrosvarki., Moskva, Gos.nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1952. 324 p. (MLRA 8:5)
(Electric welding)

KARANOV, N.S., kandidat tekhnicheskikh nauk; SLEPAK, E.S., kandidat tekhnicheskikh nauk.

Improved technology of butt welding the pipes of a water economizer. [Trudy]
TNIITMASH 60:174-187 '53. (MIRA 6:11)
(Electric welding)

Kabanov, N.S.

POLAND/Acoustics.

J

Abs Jour: Referat Zhur-Fizika, 1957, No 4, 10204

Author : Gel'man, A.S., Kabanov, N.S., Matveyev, A.S.

Inst : Not given

Title : Ultrasonic Control of Joints Made by Spot Welding.

Orig Pub: Zavod. Laboratoriya, 1954, 20, x15, 562-567

Abstract: No abstract.

Card : 1/1

KASANOV N.S.

USSR

2

11001* Resistance Welding of Pipes in a Protective (Gas) Medium. Svarka soprotyazhenim trub v nashchitnoi sredy. (Russian.) N. S. Kasanov. Strojinoe Proizvodstvo, 1955, no. 4, Apr., p. 50.
Microstructure and strength properties of welds. Tables, diagram, micrographs. 3 ref.

M BI

KABANCI, M.

V 14520* Continuous Flash Welding of Boiler Pipe of Low-Carbon and Low-Alloyed Steel. *Svarka nepreryvnym oplu- vleniem kotel'nykh trub iz nialouglerodistoi i nizkolegiro- vannoi stali.* (Russian.) N. S. Kabanov and E. S. Slovak. *Svarshnee Proizvolstvo*, 1955, no. 8, p. 1-3.

MG
1
Relation between impact strength of metal in welded union, to various factors; comparison of distribution of impact strength when continuous flash welding is used and when there is pre-heating; other mechanical properties of the steel tubing and its microstructure. Graphs, tables, micrographs. 1 ref.

of [unclear]

Central Sci. Res. Inst. Technology and Machine Bldg.

KABANOV, N.S., kandidat tekhnicheskikh nauk

Butt welding of electrical silicon steel sheets. Svar.proisv.
no.9:23-27 S '55. (MLRA 8:11)

1. Tsentral'nyy Nauchno-issledovatel'skiy institut tyashelogo
mashinostroyeniya
(Iron-silicon alloys--Welding)

KABANOV, N.S., kandidat tekhnicheskikh nauk, starshiy nauchnyy sotrudnik.

Investigating the pressure welding of tubes in protective atmospheres.

Trudy TSNIITMASH 76:23-42 '55.

(MLRA 9:7)

(Pipe, Steel--Welding)

BOBRINSKIY, Yuriy Nikolayevich; SERGEEV, Nikolay Petrovich; GULYAYEV, A.I.,
inzhener, retsentsent; KABANOV, N.S., kandidat tekhnicheskikh nauk,
redaktor; GRUSHEVSKAYA, G.M., redaktor izdatel'stva; TIKHONOV, A.Ya.,
tekhnicheskiy redaktor; MATVEYEVA, Ye.N., tekhnicheskiy redaktor

[Arrangement and installation of resistance welding machines] Ustroistvo
i naladka knotaknykh svarochnykh mashin. Moskva, Gos. nauchno-tekhn.
izd-vo mashinostroit. lit-ry, 1956. 143 p. (MLRA 10:1)
(Electric welding)

GEL'MAN, A.S., doktor tekhnicheskikh nauk, professor; ~~KABANOV, N.S.~~;
SLEPAK, E.S.; LEBEDEV, V.K., kandidat tekhnicheskikh nauk, retsenzent;
MEZHOVA, V.A., nauchnyy redaktor; TIKHANOV, A.Ya., tekhnicheskii
redaktor

[Contact butt-welding of pipes] Kontaktnaia stykovaia svarka trub.
Pod red. A.S.Gel'mana. Moskva, Gos.nauchno-tekhn.isd-vo mashino-
stroit. lit-ry, 1957. 231 p. (MIRA 10:8)
(Electric welding) (Pipe, Steel)

KABANOV, N.S., kand. tekhn. nauk.

Butt welding of thick-walled, large cross section pipes
in a protective atmosphere. Svar. proizv. no.10:l-7 '57.
(MIRA 11:1)

1. Tsentral'nyy nauchno-issledovatel'skiy institut tekhnologii i
mashinostroyeniya.

(Pipe, Steel--Welding)
(Protective atmospheres)

KABANOV, N.S.

AUTHOR: Kabanov, N.S., Candidate of Technical Sciences 135-12-9/17

TITLE: Resistance Butt Welding of Pipes in Nitrogen Medium (Stykovaya svarka trub soprotivleniyem v srede azota)

PERIODICAL: Svarochnoye Proizvodstvo, 1957, # 12, p 30-31 (USSR)

ABSTRACT: The subject experimental automatic welder is devised by TsNIITMASH for welding pipes in shielding gas by a method described formerly by the author ("Svarochnoye Proizvodstvo", 1955, # 4). It features a chamber enclosing the joined pipe ends (Figure 2). Instead of hydrogen (which explodes in pipes) nitrogen is used, which is fed under high pressure through $CuSO_4$ and P_2O_5 in a device shown in Figure 3, and ferrosilicon heated to 1,000 °C. The information includes a photograph (Figure 1) of the welder and a detailed description of its work, as well as the welding parameters. The welder is tested on steel pipes of 32 mm diameter and 4 mm wall thickness. It eliminates the reducing of the pipe bore at the joint, gives high quality welds, and can be utilized as the basis for devising a special pipe welding machine.

There are 5 photographs and 1 schematical drawing.

ASSOCIATION: TsNIITMASH
AVAILABLE: Library of Congress
Card 1/1

SOV/135-59-4-7/18

25 (1)

AUTHOR: Kabanov, N. S., Candidate of Technical Sciences

TITLE: Peculiarities of Butt Welding of Low-Carbon Steel Strip for Subsequent Rolling (Osobennosti stykovoy svarki polos malouglerodistoy stali, podvergayemykh posleduyushchey prokatke)

PERIODICAL: Svarochnoye proizvodstvo, 1959, Nr 4, pp 25 - 30 (USSR)

ABSTRACT: The author participated in a project at the Magnitogorskiy metallurgicheskiy kombinat (Magnitogorsk Metallurgical Combine) in which the right welding conditions and technology were found for properly joining the ends of 100 - 150 m steel strip coils of 2 or 2.5 mm thickness for further cold rolling in 5-stand rolling mills to 0.3 or 0.5 mm thickness. The article includes general information on the peculiarities and conventional welding technology for this purpose. Detailed information on the ways found to eliminate the cold working of the butt ends of strip, caused by the compression of butt ends in the joining process is given. The new method consists of doing the entire compression,

Card 1/3

SOV/135-59-4-7/18

Peculiarities of Butt Welding of Low-Carbon Steel Strip for Subsequent Rolling

or upsetting, under electric current and limiting the value of the upsetting by means of limit stops between the mobile and the immobile plates of the welding machine, cutting off the current for a while after finishing the upsetting. A time relay, and a current relay which gives a pulse to the time relay after the current reaches a definite value as the strip ends come into contact is used. The electric control circuit diagram for this purpose is shown (Fig. 6). Detailed technological recommendations are given. Head of designers group of the TsNIITMASH, B. A. Ryss, and engineer A. Ye. Fisher of the Magnitogorsk Metallurgical Combine central laboratory took part in the work. The author recommends the use of the modernized butt-welding machine "1700" designed by TsNIITMASH, built by the Elektrostal'skiy zavod tyazhologo mashino-stroyeniya (Electrostal' Works of Heavy Machine Construction). It has a hydraulic drive and clamps, three 500-kva transformers in a 380v circuit, 85-ton upsetting capacity, 250-ton gripping capability and welds 2 - 4.5 mm carbon steel stripes from 500 to 1500 mm

Card 2/3

18(5) 25(1,5)

AUTHORS:

Kogos, A.M., Ryss, B.A., Engineers,
Gel'man, A.S., Doctor of Technical Sciences, Professor,
Kabanov, N.S., Candidate of Technical Sciences

SOV/135-59-7-10/15

TITLE:

Resistance Welding in Steel Sheet Production

PERIODICAL:

Svarochnoye proizvodstvo, 1959, Nr 7, pp 34-39(USSR)

ABSTRACT:

The experience in introducing resistance butt welding at metallurgical plants showed that resistance welding may produce an essential engineering and economic effect, especially, when together with a well adjusted butt welding machine some other, higher requirements of the metal strip are met. The equipment developed and the technology of butt-welding of strips which was tested under difficult work conditions of metallurgical plants, is a means for increasing the productivity of machinery for cold-rolling of sheets. This process must find wide-spread application in new rolling-mill shops which are to be constructed in accordance with the Seven-Year-Plan. In table 1 the authors present basic data of TsNIITMASH butt welding

Card 1/2

SOV/135-59-7-10/15

Resistance Welding in Steel Sheet Production

machines. Such equipment was developed by TsNIITMASH during the past years and was installed at the plants "Elektrostal", "Zaporozhstal", Magnitogorskiy metallurgicheskiy kombinat (Magnitogorsk Metallurgical Combine). Fig. 2 shows a welding machine 1700 built by EZTM, used for welding steel strips in a rolling mill, whereby such processes as pickling, tinning, etc. may be performed continuously. In table 2 the authors present data for welding low carbon steel strips at welding machines 1600 and 1700. There are 2 photographs, 9 diagrams, 2 tables and 1 graph.

ASSOCIATION: TsNIITMASH

Card 2/2

KABANOV, Nikolay Sergeevich; SLEPAK, Ezra Shmulevich; GUSEV, S.F., kand.
tekhn. nauk, retsenzent; SOBOLEVA, G.N., red. izd-va; CHERNOVA,
Z.I., tekhn. red.

[Technology of resistance butt welding] Tekhnologiya stykovoï kon-
taktnoi svarki. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit.
lit-ry, 1961. 249 p. (MIRA 14:6)

(Electric welding)

PHASE I BOOK EXPLOITATION

SOV/5623

Kabanov, Nikolay Sergeevich, and Ezra Shmulevich Slepak

Tekhnologiya stykovoy kontaktnoy svarki (Resistance Butt-Welding Process) Moscow, Mashgiz, 1961. 249 p. 13,000 copies printed.

Reviewer: S. F. Gusev, Candidate of Technical Sciences; Ed. of Publishing House: G. N. Soboleva; Tech. Ed.: Z. I. Chernova; Managing Ed. for Literature on Hot-Processed Metals: S. Ya. Golovin, Engineer.

PURPOSE: This book is intended for process engineers and designers concerned with resistance butt welding. It may also be useful to students specializing in resistance welding at schools of higher education and tekhnikums.

COVERAGE: The fundamentals of pressure butt-welding methods are discussed. Data on the resistance butt welding of a great number of products made of different steels are presented. Recommendations are made regarding the selection of welding conditions, electrodes, and equipment. Schematics for designing transformers are also included. No personalities are mentioned. There are 68 references, all Soviet.

Card 1/4

KABANOV, N.S.; CHEREDNICHOK, V.T.

Welding in metalwork in the German Federal Republic. (from materials of a visit by a Soviet delegation to metallurgical plants in the German Federal Republic). Avtom. svar. 16 no.4:87-94 Ap '63.

(MIRA 16:4)

(Germany, West—Welding)

L 24441-66 EWT(m)/ENA(d)/ENP(v)/T/ENP(t)/ENP(k) LJP(c) JD/HW/HW
ACC NR: AP6012281 (N) SOURCE CODE: UR/0125/65/000/011/0031/0037

AUTHOR: Xabanov, N. S.

ORG: VNIImetmash

TITLE: Use of the resistance and flash methods for butt welding thin-walled pipes
of small diameter

SOURCE: Avtomaticheskaya svarka, no. 11, 1965, 31-37

TOPIC TAGS: flash welding, resistance welding, butt welding, weldability, pipe

ABSTRACT: The author studies various methods for eliminating the FeO(CrFe)₂O₃ oxide film which forms during butt welding of pipes made from chrome steels. Specimens 32 mm in diameter with walls 5-6.5 mm thick made from steels with a Cr content of up to 11% were butt-welded by various methods: resistance welding, flash welding and welding with HF current. It was found that flash welding is satisfactory for joining pipes made from 12Kh2MFSR, 15Kh2M2FBS and 12Kh11V2MF steels. The first two types of steel should be welded without preheating. Curves are given showing the basic parameters of the flash and resistance methods as functions of time. Bending produces slight tears in butt joints flash-welded from 15Kh2M2FBS steel when upsetting is reduced from 6 to 4 mm and the rate of upsetting is lowered to 25 mm/sec or when the flashing time is increased to 25 sec. 12Kh11V2MF steel was normalized at 1050°C and

UDC: 621.791.06:621.9-462

Card 1/2

L 24441-66

ACC NR: AP6012281

3

tempered from 740°C before welding. The initial hardness of the material has a greater effect on the quality of the joint than the welding conditions for this steel. The microstructures of the joints produced by various welding methods with various materials are discussed. Resistance welding is recommended for joining thin-walled pipes made from low-alloy steels, while welding with heating by high frequency current is recommended for high-alloy chrome steels. The welding should be done with a shielding mixture of nitrogen and hydrogen (3-4%) from which oxygen and moisture have been removed. The ends of the pipes should be gauged before welding. Welding with HF current is more productive than resistance welding and less sensitive to variations in the voltage supply. Flash welding cannot be recommended for use in joining thin-walled pipes made of chrome steel because upsetting causes swelling at the joint. 12KhMF, 12Kh5SNA and 12Kh2MFBS showed the best weldability. Orig. art. has: 4 figures, 4 tables. 18

SUB CODE: 11,13/

SUBM DATE: 03Feb65/

ORIG REF: 002/

OTH REF: 000

Card 2/2dda

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Title : To report on scientific developments in agricultural publications

Periodical : Vest. AN SSSR 6, 124-126, June 1954

Abstract : Letter to editor urging the printing of news on scientific developments in the numerous agricultural and forestry publications.

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Submitted : ...

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Author : Kabanov, N.E.

Inst : Not Given

Title : Academician Vladimir Nikolayevich Sukachev and His Scientific Activity (On the 75th Anniversary of his Birth)

Orig Pub : V sb. Zemlevedeniie. 4. M., MGU, 1957, 9-25

Abstract : No abstract (See Referat. Zh. Biol., 1956, 29772)

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