"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

1. MALEYNOV, A. A.; TUSHINSKIY, G. K.

2. USSR (600)

4. Geology and Geography

7. Travels in the Mountains, A. A. Maleynov, and G. K. Tushinskiy. (Moscow, Geography Press, 1950). Reviewed by N. A. Gvozdetskiy, Sov. Kniga, No. 9, 1951.

9. [redacted] Report U-3081, 16 Jan. 1953. Unclassified.

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

TUSHINSKIY, G.K.; GUS'KOVA, Ye.F.; GUBAREVA, V.D.

[Snow recrystallization and the formation of avalanches] Perekristallizatsiia snega i vozniknovenie lavin. [Moskva] Izd-vo Moskovskogo univ., 1953. 114 p. (MIRA 9:10)
(Snow) (Avalanches)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

TUSHINSKIY, G. K., GUS'KOVA, YE. F., AND GUBAREVA, V. D.

Recrystallization of Snow and the Occurrence of Avalanches

The authors expound a procedure for and results of investigations into snow thicknesses of avalanche-dangerous portions for clarifying the processes governing the formation of weekly gound horizons of snow firms and deep hoarfrost forming dangerous horizons of sliding. On experimental areas under natural condition they studied the temperature regime for 2 years, migration of water vapor, and changes in microstructure of the snow. They set up special experiments for studing the process of firnization of newly fallen snow and the evolution of bonds between the crystals by means of observations during the changes occuring in the same crystals over a period of several months. The results of the works showed the inescapableness of recrystallization of the snow thickness with course of time and confirmed earlier recommendations. (RZhGeol, No. 4, 1955) Uch. zap. Mosk. gor. ped. in-ta, 21, 1953, 43-69

SO: Sum. No. 744, 8 Dec 55 - Supplementary Survey of Soviet Scientific. Abstracts (17)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

TUSHINSKIY, G.K.

BORZOV, A.A.; FETUKHOV, A.F.; GVOZDETSKIY, N.A., redaktor; DIK, N.Ye., redaktor; SOLOV'YEV, A.I., redaktor; [redacted]; redaktor; KOSTINSKIY, D.N., redaktor; KOSHELEVA, S.M., tekhnicheskiy redaktor

[Geographical works] Geograficheskie raboty. 2-e, ispr. izd. Moskva, Gos. izd-vo Geograf. lit-ry, 1954. 523 p. (MIRA 8:4)
(Physical geography) (Geography--Study and teaching)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

TUSHINSKIY, G.K.

SIMONOV, Ye.D., redaktor; ROTOTAYEV, P.S., redaktor; BOROVIKOV, A.M., redaktor; BULGAKOV, N.V., redaktor; GARF, B.A., redaktor, GVOZDETSKIY, N.A., redaktor; YEZERSKIY, Ye.M., redaktor; ZATULOVSKIY, D.M., redaktor; IVANOV, A.I., redaktor; KUZ'MIN, K.K., redaktor; NESTEROV, V.F., redaktor; SUSLOV, A.D., redaktor; TUSHINSKIY, G.K., redaktor; YUKHIN, I.V., redaktor; LEBEDEVA, N.G., redaktor; GOLITSYN, A.V., redaktor; KOSHELEVA, S.M., tekhnicheskiy redaktor

[Conquered peaks; annual publication of Soviet mountaineering for 1953] Pobezhdennye vershiny; ezhegodnik sovetskogo al'pinizma god 1953. Moskva, Gos. izd-vo geograficheskoi lit-ry, 1954. 606 p.
(Mountaineering--Yearbooks) (MLRA 8:7)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

TUSHINSKIY, G. K.

The Committee on Stalin Prizes (of the Council of Ministers USSR) in the fields of science and inventions announces that the following scientific works, popular scientific books, and textbooks have been submitted for competition for Stalin Prizes for the years 1952 and 1953. (Sovetskaya Kultura, Moscow, No. 22-40, 20 Feb - 3 Apr 1954)

Name	Title of Work	Nominated by
Tushinskiy, G. K.	"Avalanches. Their Formation and Protection From Them" "Travels in the Mountains" "Recrystallization of Snow and the Formation of Avalanches"	Moscow State University imeni M. V. Lomonosov

SO: W-30604, 7 July 1954

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

TUSHINSKIY, G. K.

USSR/Geophysics - Geographers FD-688

Card 1/1 : Pub. 129 - 23/25

Author : Kibal'chich, O.

Title : Lomonosov lectures, 22-26 April 1954, in the Geographic Faculty

Periodical : Vest. Mosk. un., Ser. fizikomat. i yest. nauk, Vol. 9, No.3, 155-158, May 1954

Abstract : Prof. P. N. Stepanov, "Experience gained in the work of the 'Ural' Study [Kabinet] of the Chair of USSR Economic Geography. "Docent I. M. textbooks on economic geography of Hungary and Czechoslovakia." Prof. A. G. Voronov, "Principles governing the construction of collections on biogeography and their use in the preparation of geographers." Prof. G. K. Tushinskiy," Development of stands and exhibits at museums." Prof. I. S. Shchukin, "Development of geomorphology in Moscow University." Prof. N. N. Zubov "theory of the regime of channels and lakes in air regions." Docent A. F. Miroshnuchenko, "Experience gained in compiling complex maps of natural conditions in territories utilized by Kolkhozes."

Institution : --

Submitted : --

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

TUSHINSKIY, G.K., red.; PONOMARENKO, A.A., tekhn. red.

[Programs of pedagogical institutes; summer field work for geography faculties] Programmy pedagogicheskikh institutov; letniaia polevaia praktika dlia geograficheskikh fakul'tetov. [Moskva] Uchpedgiz, 1955. 31 p. (MIRA 11:9)

1. Russia (1917- R.S.F.S.R.) Glavnoye upravleniye vysshikh i srednikh pedagogicheskikh uchebnykh zavedeniy.
(Geography—Study and teaching)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

ZABIROV, Rashit Dzhamaliyevich; ASOYAN, N.S., redaktor; TUSHINSKIY, G.K., professor, doktor geograficheskikh nauk, redaktor; RIVINA, I.N., tekhnicheskiy redaktor

[Glaciation of Pamirs] Oledenenie Pamira. Moskva, Gos. izd-vo geograficheskoi lit-ry, 1955. 370 p. (MLRA 8:7)
(Pamirs--Physical geography)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

DAVYDOVA, M.I.; KAMENSKIY, A.I.; TUSHINSKIY, G.K.; VASIL'YEVA, O.S., redaktor; CHUVALDIN, A.M., redaktor kart; MAKHOVA, N.N., tekhnicheskiy redaktor

[Physical geography of the U.S.S.R.; practical exercises] Fizicheskaia geografiia SSSR; prakticheskie raboty. Moskva, Gos. uchebno-pedagog. izd-vo Ministerstva prosveshcheniia RSFSR, 1956. 162 p. 20 fold. maps. (MLRA 10:2)

(Physical geography)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

14-57-7-14927

Translation from: Referativnyy zhurnal, Geografiya, 1957, Nr 7, p 120 (USSR)

AUTHOR: Tushinskiy, G. K.

TITLE: Means of Preventing Avalanches (Meropriyatiya po bor'be s lavinami)

PERIODICAL: V sb: Vopr. ispol'zovaniya snega i bor'ba so snezh. zanosami i lavinami, Moscow, 1956, pp 156-166

ABSTRACT: The author points out that construction sites cannot be properly selected and all-year roads cannot be built in newly opened mountainous regions until reconnaissance work and exploratory studies of means for preventing avalanches have been undertaken. He presents a table which classifies different kinds of avalanches, and he emphasizes the necessity of taking classification features into consideration when studying the danger of avalanches and means for

Card 1/3

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

14-57-7-14927

Means of Preventing Avalanches (Cont.)

preventing them. He discusses unusual relief formations produced by avalanches, such as runoff canals, fans, hillocks, layers of clastic material, and lateral pseudomoraines. In addition to these relief forms, avalanches produce a special type of rock consisting of assorted clastic material. The author also shows that avalanches affect vegetation in two different ways; they destroy certain kinds of trees and alter the components of vegetation associations. Exploratory studies should center on locating dangerous areas in order to devise acceptable measures for preventing avalanches and to acquire data which would help in designing preventive structures. The TNIS [Tbilisskiy n.-i. in-t sooruzheniy, (Tiflis Scientific Structural Institute] formula is recommended for determining the speed at which avalanches move and the resulting force with which they strike at any point on a slope. The author describes various means for combating avalanches. He discusses preventive measures, such as the use of patrols and warning systems, deliberate destruction of avalanches, and application of various engineering

Card 2/3

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

14-57-7-14927

Means of Preventing Avalanches (Cont.)

techniques. Some of these are: warning systems, packing of snow in avalanche deflectors (stone walls and wooden shields); prevention of snow slides on slopes by planting trees, use of intercepting ditches with embankment, use of terraces, retaining walls, and wooden shields;, the ways of deflecting avalanches by dykes and dams, and of directing avalanches over the structures protected by roofs and galleries. The author maintains that a state inspection system must be organized to plan the construction of buildings and roads in the mountains and to see that plans are carried out.

Card 3/3 A. T.

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

TUSHINSKIY, G.K.

VASIL'YEVA, I.V., dots.; DAVYDOVA, M.I., dots.; KAMENSKIY, A.I., dots.; KOTEL'NIKOV, V.L., dots.; TUSHINSKIY, G.K., prof.; YATSENKO, A.A., dots.; KREYS, I.G., tekhn.red.; SHCHEPTEVA, T.A., tekhn.red.

[Programs of pedagogical institutes; physical geography of the U.S.S.R.] Programmy pedagogicheskikh institutov; fizicheskaia geografiia SSSR. [Moskva] Uchpedgiz, 1957. 22 p. (MIRA 11:3)

1. Russia (1917- R.S.F.S.R.) Glavnoye upravleniye vysshikh i srednikh pedagogicheskikh uchebnykh zavedenii.
(Physical geography--Study and teaching)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

TUSHINSKIY, G.K., prof.; AVSYUK, G.A., prof., otvetstvennyy red.; PAVLOVA, Ye.P., red.

[No.6. Studying the snow cover; no.7. Observations on firns; No.8. Observing avalanches; No.9. Observing snow transport by snowstorms] No.6. Izuchenie snezhnogo pokrova; No. 7. Nabliudeniia na snezhnikakh; No.8. Nabliudenii za lavinami; No.9. Nabliudeniia za metelevym perenosom snega. Moskva, 1957 63 p. (Osnovnye metodicheskie ukazaniia po gliatsiologicheskim issledovaniiam) (MIRA 11:9)
(Snow)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

TUSHINSKIY, G.K., prof.; AVSYUK, G.A., prof., red.; PAVLOVA, Ye.P., red.

[Fundamentals of safety techniques in carrying out glaciological research] Osnovy tekhniki bezopastnosti pri provedenii gliatsiologicheskikh issledovanii, Moskva, 1957. 21 p. (Osnovnye metodicheskie ukazaniia po gliatsiologicheskim issledovaniiam, no.12) (MIRA 11:7)

(Glaciers)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

TUSHINSKIY, GEORGIY KAZIMIROVICH

TUSHINSKIY, Georgiy Kazimirovich; SKVORTSOV, V.P., red.; AVERKIYEVA, T.A., tekhn.red.

[Avalanches and protection from them during geological prospecting] Laviny i zashchita ot nikh na geologo-razvedochnykh raborakh. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po geol. i okhrane nedr, 1957. 107 p. (MIRA 11:2)
(Avalanches)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

TUSHINSKIY, G.K.

BUNDEL', A.A.; red.; GIPPENREYTER, B.Ye., red.; GVOZDETSKIY, N.A., red.; GREKOV, L.I., red.; KUZ'MIN, K.K., red.; LETAVET, A.A., red.; NEMYTSKIY, V.V., red.; ROTOTAYEV, P.S., red.; SIMONOV, Ye.D., red.; TUSHINSKIY, G.K., red.; YUKHIN, I.V., red.; DOBRONRAVOVA, K.O., red.; GLEIKH, D.A., tekhn.red.; MAL'CHEVSKIY, G.N., red. kart.

[Conquered peaks of 1954; a yearbook of Soviet mountaineering] Pobezhdennye vershiny god 1954; ezhegodnik sovetskogo al'pinizma. [Moskva] Gos.izd-vo geogr.lit-ry, 1957. 431 p. (MIRA 11:1)
(Mountaineering--Yearbooks)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

TUSHINSKIY, G. K.

3(3,4) p.2, p.4 PHASE I BOOK EXPLOITATION SOV/2355

Moscow. Universitet. Geograficheskiy fakul'tet.

Informatsionnyy sbornik o rabotakh Geograficheskogo fakul'teta Moskovskogo gosudarstvennogo universiteta po Mezhdunarodnomu geofizicheskomu godu, No 1 (Collection of Information on Work Done by the Geography Department of Moscow University for the International Geophysical Year, Nr 1) Moscow, 1958. 298 p. Errata slip inserted, 800 copies printed.

Resp. Ed.: G. K. Tushinskiy, Professor

PURPOSE: This book is intended for earth scientists, particularly those interested in glacial phenomena.

COVERAGE: This book describes the activities of the Geography Department of Moscow State University in connection with International Geophysical Year. The work is divided into 4 parts, each dealing with a specific regional expedition. These are: the Mount Elbrus Expedition, the Khibiny Expedition, the Pamir Expedition, and the Antarctic Expedition. Additional articles discuss problems in glaciology and research techniques. References accompany each article.

Card 1/5

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

Collection of Information on Work Done by the (Cont.) SOV/2355

TABLE OF CONTENTS:

THE I.G.Y. ELBRUS EXPEDITION

Tushinskiy, G.K. Glaciological Work on Mount Elbrus 3

Shcherbakova, Ye.M. Traces of the Last Glaciation in Priel'brus'ye [Mount Elbrus District] 29

Ryabtseva, K.M. Observations of Snow and Freezing Processes on the Southern Slope of the Elbrus 102

Bryukhanov, A.V., I.R. Zaytov, and I.A. Lappo. Contents and Symbols of Large-Scale Glacier Maps 111

Troshkina, Ye.S. Preliminary Data on the Application of the Spore-Pollen Method on Elbrus Glaciers 124

Plam, M.Ya. Remote-Control Equipment and Methodology Used in Studying the Temperature of the Elbrus Ice Covers 129

Card 2/5

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

THE I.G.Y. KHIBINY EXPEDITION

Gromov, K.M. Preliminary Information on the Work of the Khibiny Station for the International Geophysical Year 133

Puzanov, V.P. Climatic Conditions of Snow and Ice Melting 138

Gromov, K.M. Study of the Moisture Status of Soils and Grounds 158

Kryuchkov, V.V. The Problem of Hydrothermal Conditions of the Soils of the Khibiny Mountain Range 186

Perov, V.F. The First Glacier in the Khibiny Region 206

THE I.G.Y. PAMIR EXPEDITION

Chuchkalov, B.S. Preliminary Information on the Work of the Pamir Expedition of the International Geophysical Year 209

THE I.G.Y. ANTARCTIC EXPEDITION

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

Kapitsa, A.P. Preliminary Results of the Seismographic Sounding of the Antarctic Snow Cover During the First Soviet Antarctic Expedition of the Academy of Sciences, USSR, 1955-57 217

GENERAL PROBLEMS OF GLACIOLOGY AND THE STUDY OF PERMAFROST

Popov, A.I. The Glacial-Geological Zoning of the Permafrost Area in the USSR 239

RESEARCH METHODS

Krenke, A.N., and Ye.S. Troshkina. Method of Collecting Ice Samples for the Spore-Pollen Analysis 265

Kapitsa, A.P. Mechanical Drilling of a Freshwater Firn 268

Ryabtseva, K.M., and G.K. Tushinskiy. Stratigraphy of Snow as an Indicator of the Characteristics of Natural Region Complexes 272

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

Collection of Information on Work Done by the (Cont.) SOV/2355

Shcherbakova, Ye.M. Information Table for Traces of Ancient Glaciation in Mountains 284

REPORTS

Troshkina, Ye.S. Study of the Physical Properties of Snow and of the Metamorphic Process in a Snow Cover 289

AVAILABLE: Library of Congress

Card 5/5

MM/fal
9-18-59

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

TUSHINSKIY, G.K.

Program and methods of studying snow thickness in order to forecast the approach of avalanche danger. Trudy Tbil. NIGMI no.3:118-127 '58. (MIRA 11:10)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.
(Snow)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

TUSHINSKIY, G.K.; SULAKVELIDZE, G.K.

Glaciological research on Mount Elbrus. Mezhdunar. geofiz. god no.5:56-63 '58. (MIRA 11:10)
(Elbrus, Mount--Glaciers)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

TUSHINSKIY, G.K.; TYABTSEVA, K.M.

The International Geophysical Year. Geog. v shkole 21 no. 1:1-14 Ja-F '58. (MIRA 11:7)
(International Geophysical Year, 1957-1958)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

TUSHINSKIY, G.K.

Rhythm in the glaciation and snow dynamics of Caucasus. Vest. Mosk.un.Ser.5: Geog. 15 no.1:31-36 '60. (MIRA 13:8)

1. Kafedra obshchego zemlevedeniya Moskovskogo universiteta.
(Caucasus--Glaciers) (Caucasus--Snow)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

TUSHINSKIY, G. K.

"Present-Day Glaciation of the Caucasus and Its Dynamics"

report to be submitted for the Intl. Geographical Union, 10th General Assembly and 19th Intl. Geographical Congress, Stockholm, Sweden, 6-13 August 1960.

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

TUSHINSKIY, Georgiy Kazimirovich, prof., doktor geograf.nauk. Prinimal uchastiye RUDAKOV, L.M., BYALOBZHESKIY, G.V., red.; CHVAHOV, V.G., red.izd-va; DONSKAYA, G.D., tekhn.red.

[Protecting highways from snow slides] Zashchita avtomobil'nykh dorog ot lavin. Moskva, Nauchno-tekhn.izd-vo M-va avtomobil'nogo transp. i shosseinykh dorog RSFSR, 1960. 152 p. (MIRA 13:5)

1. Moskovskiy gosudarstvennyy universitet (for Rudakov). 2. Gosudarstvennyy vsesoyuznyy dorozhnyy nauchno-issledovatel'skiy institut (SOYUZDORNII) (for Byalobzheskiy).
(Roads--Snow protection and removal)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

SOV/3-59-5-24/34

22(1)

AUTHORS: Davydova, M.I., and Kamenskiy, A.I., Candidates of Geographical Sciences; Docents; Tushinskiy, G.K. Doctor of Geographical Sciences, Professor.

TITLE: Practical Field Training in Physical Geography

PERIODICAL: Vestnik vysshey shkoly, 1959, Nr 5, pp 78 - 79 (USSR)

ABSTRACT: The basic purpose of practical field training is to assimilate the methods of thoroughly conducted geographical research and to estimate the natural resources and possibilities of their utilization on a specific territory. The natural-geographical and geographical departments of pedagogical institute conduct practical field training in physical geography during the first 4 years. The author describes the task given to students of the 4 years which results in working out a detailed geographic characteristic of the specific territory, drawing up a landscape chart with a detailed explanation.

Card 1/3

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

SOV/3-59-5-24/34

Practical Field Training in Physical Geography

In 1955, the Ministerstvo prosveshcheniya RSFSR (Ministry of Education RSFSR) approved a program of practical field training in summer for third year students which is carried out by the various pedagogical institutes in a different way for lack of information on the content and methods to be adopted. The Geographical Department of the Moscow City Pedagogical Institute has been convinced by experience that it is best to conduct practical field training on a comparatively small territory. It should, however, visually demonstrate the most important regularities of structure of the geographical surrounding and the intercommunication between the individual elements of nature and economy. The geographical and biologic-geographical stations of vuzes comply with these demands. The author outlines how research could be developed if the stations are well equipped, stating that

Card 2/3

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

SOV/3-59-5-24/34

Practical Field Training in Physical Geography.

a concluding scientific-methodological conference should be the final stage of a practical field training.

ASSOCIATION: Moskovskiy gorodskoy pedagogicheskiy institut imeni V.P. Potemkina (Moscow City Pedagogical Institute imeni V.P. Potemkin)

Card 3/3

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

SUKACHEV, V.N.; BOGDANOV, A.A.; IVANOVA, I.K.; LAZUKOV, G.I.; NIKOLAYEV, N.I.; YAKUSHOVA, A.F.; GELLER, S.Yu.; GRICHUK, V.P.; KOLESNIK, S.V.; SOKOLOV, N.N.; LICHKOV, B.L.; GORETSKIY, G.I.; SHCHUKIN, I.S.; BYKOV, V.D.; SAUSHKIN, Yu.G.; GLAZOVSKAYA, M.A.; GVOZDETSKIY, N.A.; TUSHINSKIY, G.K.

Konstantin Konstantinovich Markov's role in the creation and development of the paleogeography of the anthropogenic (the Quaternary) period; on his 60th birthday and the 40th anniversary of scientific work. Izv. Vses. geog. ob-va 97 no.4:377-379 Jl-Ag '65. (MIRA 18:8)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

AKIF'YEVA, K. V.; BELINSKIY, V. A.; BRYUKHANOV, A. V.; VLADIMIROVA, G. A.; MAKHOVA, Yu. V.; MALINOVSKAYA, N. M.; MYAGKOV, S. M.; NORMAN, E. A.; SEMEKHIN, Yu. V.; TARASOV, G. K.; TUSHINSKIY, G. K.; UTYAKOV, P. A.; FAMINTSYN, B. M.; SHATERNIKOVA, I. S.; SHANSHIYEV, K. M.

Estimation of the danger of avalanches in high mountain areas designated for development. Inform. sbor. o rab. Geog. fak. Mosk. gos. un. po. Mezhdunar. geofiz. godu no.8:27-163 '62. (MIRA 16:1)

(Caucasus—Avalanches)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

AVSYUK, G.A.; GRAVE, N.A.; KOTLYAKOV, V.M.; PESCHANSKIY, I.S.; TUSHINSKIY, G.K.

[Report on research in glaciology, 1960-1962; presented to the International Association of Hydrology and the International Snow and Ice Commission for the 13th General Assembly of the International Union of Geodesy and Geophysics] Soobshchenie o nauchnykh rabotakh po gliatsiologii, 1960-1962 gg.; predstavliaetsia v Mezhdunarodnuiu assotsiatsiiu nauchnoi gidrologii i Mezhdunarodnuiu komissiiu snega i L8da k XIII General'noi Assamblee Mezhdunarodnogo geodezicheskogo i geofizicheskogo soiuza. Moskva, AN SSSR, 1963. 109 p. (MIRA 17:3)

1. Akademiya nauk SSSR. Mezhduvedomstvennyy geofizicheskiy komitet. 2. Predsedatel' sektsii glyatsiologii Sovetskogo geofizicheskogo komiteta (for Avsyuk). 3. Byuro sektsii glyatsiologii Sovetskogo geofizicheskogo komiteta (for Grave, Kotlyakov, Peschanskiy, Tushinskiy).

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

TUSHINSKIY, G.K.; MALINOVSKAYA, N.M.

Position of the "365 level" over the territory of the U.S.S.R. and its relation to the glaciation. Inform.sbor.o rab.Geog. fak.Mosk.gos.un.po Mezhdunar.geofiz.godu no.9:5-9 '62. (MIRA 16:2)

(Glaciology) (Snow line)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

TUSHINSKIY, G.K.

Ice depth of Mount Elbrus. Inform.sbor.o rab.Geog.fak.Mosk.gos.un. po Mezhdunar.geofiz.godu no.5:6-9 '60. (MIRA 16:3)
(Elbrus, Mount—Ice)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

TUSHINSKIY, G. K.

Features of mountain glacier areas and problems in applied glaciology. Inform. sbor. o rab. Geog. fak. Mosk. gos. un. po Mezhdunar. geofiz. godu no.8:7-26 '62. (MIRA 16:1)

(Glaciers)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

DAVYDOVA, Mariya Ivanovna; KAMENSKIY, Aleksandr Iosifovich; TUSHINSKIY, Georgiy Kazimirovich; FISHCHEVA, T.V., red.; ZAYTSEVA, K.F., red. kart; KORNEYEVA, V.I., tekhn. red.

[General field practice in physical geography] Kompleksnaia polevaia praktika po fizicheskoi geografii; posobie dlia studentov III i IV kursov geografo-biologicheskikh fakul'tetov pedagogicheskikh institutov. Moskva, Uchpedgiz, 1962. 147 p. (MIRA 16:7)

(Physical geography--Study and teaching)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

TUSHINSKIY, Georgiy Kazimirovich, prof.; ABRAMOV, L.S., red.; KONOVALYUK, I.K., mladshiy red.; GOLITSYN, A.V., red. kart; VILENSKAYA, E.N., tekhn. red.

[Glaciers, snow, and avalanches in the Soviet Union]Ledniki, snezhniki, laviny Sovetskogo Soiuza. Moskva, Geografgiz, 1963. 310 p. (MIRA 16:4)
(Snow) (Avalanches) (Glaciers)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

TUSHINSKIY, G.K.

Glacial retreat of Mount Elbrus and its dynamics. Inofrm.sbor.o rab. Geog. fak. Mosk. gos. un. po Mezhdunar. geofiz. godu no.2:117-166 '58. (MIRA 15:10)

(Elbrus, Mount—Glaciers)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

SULAKVELIDZE, G.K., prof., red.; TUSHINSKIY, G.K., prof., red.; MAKHOV, A.G., red. izd-va; BARGI, T.M., tekhn. red.; KUMUKOVA, S.S., tekhn. red.

[Transaction of the Elbrus Alpine Expedition]Trudy El'brusskoy vysokogornoy ekspeditsii, 1934-. Nal'chik, Kavardino-Balkarskoe knizhnoe izd-vo. Vol.1(4).[Snow, avalanches, and the use of snow in the national economy]Sneg, laviny i primenenie snega v narodnom khoziaistve (Materialy II Vsesoiuznoi mezhvedomstvennoi konferentsii, posviashchennoi voprosam snezhnogo pokrova). 1959. 306 p. (MIRA 15:11)

1. El'brusskaya vysokogornaya ekspeditsiya, 1934-.
(Snow)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

S/148/62/000/008/004/009
E071/E435

AUTHORS: Edel'man, F.L., Tushinskiy, L.I.

TITLE: Resistance of iron-aluminium alloys to scale formation

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Chernaya metallurgiya, no.8, 1962, 119-127

TEXT: The investigation was carried out in order to obtain data on the resistance to the formation of scale for a large group of iron-aluminium alloys containing various amounts of carbon (0.05 to 0.45), aluminium (10.6 to 31.2) and silicon (0.03 to 0.52). Some of the alloys were modified with calcium. The method of preparation of the alloys and specimens as well as the method of testing were described in an earlier paper. The specimens were retained in a furnace at 800 and 1000°C for 1, 2, 5, 10, 25, 50 and 100 hours and at 1100°C for 1, 2, 5 and 10 hours. In addition some data on the initial stages of oxidation of the alloys at 1000°C were obtained. Depending on the temperature of oxidation there are various optimal compositions of iron-aluminium alloys:

Card 1/3

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

	Optimum content of Al in alloy, %	Resistance to scaling at a temperature, °C
not less than	15 - 16	up to 800
not less than	18 - 22	800 - 1000
not less than	22 - 25	1000 - 1100

The mechanism of oxidation of the alloy is similar to that of iron-chromium-aluminium alloys, i.e. in the first stage simultaneous oxidation of iron and aluminium takes place with the formation of an oxide film, probably of the spinel type. On further retention or with increasing temperature, the process of alumothermal reduction of iron oxides in the film takes place. The composition of the film approaches that of aluminium oxide. All iron-aluminium alloys with an optimal or higher aluminium content for the given temperature had a dense, non-scaling oxide

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

film. Conclusion: iron-aluminium alloys in the cast state have a high resistance to scaling, comparable with that of a number of highly alloyed steels and alloys. The protective oxide film is dense and thin. The best resistance to scaling can be obtained in low carbon alloys (less than 0.1% C and 17 to 22% of Al), modified with 0.1 to 0.2% of calcium. The parabolic law is applicable to high temperature (above 800°C) oxidation of iron-aluminium alloys on the basis of which the main constants of the oxidation process can be calculated. There are 7 figures and 3 tables.

ASSOCIATION: Novosibirskiy elektrotekhnicheskiy institut (Novosibirsk Electrotechnical Institute)

SUBMITTED: July 7, 1961

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

(A) L 11783-66 EWT(m)/EWA(d)/T/EWP(t)/EWP(k)/EWP(z)/EWP(b)/EWA(c) JD/HW

ACC NR: AP6001687 SOURCE CODE: UR/0148/65/000/012/0114/0115

44,55 44,55 44,55 44,55

AUTHOR: Tushinskiy, L. I.; Tushinskaya, K. I.; Stenin, S. I.; Tikhomirova, L. B.

44,55

ORG: Novosibirsk Electrotechnical Institute (Novosibirskiy elektrotekhnicheskiy institut)

57

B

TITLE: Strengthening of high-manganese steel with combined thermomechanical treatment

14

SOURCE: IVUZ. Chernaya metallurgiya, no. 12, 1965, 114-115

TOPIC TAGS: steel, manganese steel, manganese containing steel, austenitic steel, steel thermomechanical treatment, high temperature treatment, low temperature treatment, combined treatment

ABSTRACT: Strengthening of high-manganese steel G13 [0.9—1.4% C, 11—14% Mn] by combined high-temperature thermomechanical treatment (HTTMT) and low-temperature thermomechanical treatment (LTTMT) has been investigated. Forged bars 10 x 10 x 60 mm were annealed at 1050C and rolled in one pass with 45% reduction, cooled to 370C (HTTMT), rolled in one pass with 10% reduction, and water quenched. The HTTMT caused the fragmentation of austenite grains and LTTMT brought about additional fragmentation and slips within grains. After combined heat treatment, the steel had a tensile strength of 129.5 kg/mm^2, a yield strength of 74.5 kg/mm^2, a hardness of 35 HRC, an elongation of 33.5%, and a reduction of area of 30.5% compared to 104 kg/mm^2, 44.7 kg/mm^2, 35 HRC, 53.3%, and 37.5% for the annealed steel and

Card 1/2 UDC: 669.15-194:669.74-15

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

L 11783-66

ACC NR: AP6001687

115 kg/mm^2, 43 kg/mm^2, 17 HRC, 53.2%, and 36.5% after HTTMT. The additional increase of tensile strength and hardness after LTTMT indicates that plastic deformation at 370C caused the essential change in structure and properties, not only in the surface layers, but in the whole volume of the specimens. Despite the decrease in ductility, the steel can be used under conditions of active wear and impact loads. Orig. art. has: 2 figures and 1 table. [WW]

SUB CODE: 11/ SUBM DATE: 20Jun64/ ORIG REF: 002/ ATD PRESS: 4180

HW

Card 2/2

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

ACCESSION NR: AP4017762 S/0148/64/000/002/0131/0139

AUTHOR: Edel'man, F. L.; Tushinskiy, L. I.

TITLE: The structure of Fe-Al alloys

SOURCE: IVUZ. Chernaya metallurgiya, no. 2, 1964, 131-139

TOPIC TAGS: iron aluminum alloy, alloy structure, macrostructure, microstructure, annealing, K-phase, alpha solid solution, ferrite, graphite, silicon, calcium, iron, aluminum, heat treatment

ABSTRACT: Little is known about the effect of different compositions of Fe-Al alloys on their macrostructures. Therefore, the authors investigated 200-300 g specimens of the following group of Fe-Al alloys: (1) with a low content of additives and a variable Al content; (2) with a variable C and Al content; (3) with a variable Si and Al content; and (4) CaSi-inoculated alloys. Maximum brittleness occurred in group (3). Increased additions of Al and C lead to intensive graphitizing in all groups, and 0.1 to 0.2% Ca refined grain size and caused the formation of equi-axial crystals. Hot ductility was

Card 1/3

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

ACCESSION NR: AP4017762

found to have increased with tensile strength reaching 51 kg/mm^2 at a 10% elongation per unit length. The microstructure of the specimens was basically composed of Al in Fe alpha-solid solution, with negligible quantities of C and a K-phase. In the light of the current controversy over the effect of the K-phase on mechanical and physical properties, the authors investigated the action of heat treatment on the microstructure of the alloys. Cast specimens were annealed at 1000 C for 100 hours. Hardness was highest in group (2), reaching 395-615 Brinell Hardness (HB) for the alpha-phase and 615-755 for the K-phase. Carbon alloys were appreciably affected and it was found that the quantity and the size of the K-precipitants increased, and the hardness of the alpha-solution decreased by 10-40% and by only 5 to 15% for the K-phase. Carbide hardness amounted to 703-858 Brinell Hardness (HB). In group (3), annealing decreased the number and size of the K-phase grains and carbides. Group (4) displayed less carbide, and with 17-22% Al, numerous lamellar K-phase grains and a carbide phase appeared. All inoculated annealed specimens displayed a lower alpha-phase hardness and a higher K-phase hardness. The authors

Card 2/3

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

ACCESSION NR: AP4017762

contend that the K-phase is a stabilized superstructure (Fe_3Al) with a C content within the 0.01 to 4% range inasmuch as the C content does not affect the quantity of the K-phase while microhardness is affected by composition. The authors recommend a maximum C content of 4.4% in the K-phase which corresponds to the formula of the $(Fe_3Al)_4C_3$ compound. Orig. art. has: 5 figures, 3 tables and 2 equations.

ASSOCIATION: Novosibirskiy elektrotekhnicheskiy institut (Novosibirsk Electrical Engineering Institute)

SUBMITTED: 31Jul63 DATE ACQ: 12Mar64 ENCL: 00

SUB CODE: ML NO REF SOV: 010 OTHER: 000

Card 3/3

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

EDEL'MAN, F.L.; TUSHINSKIY, L.I.

Substructure and shear in the structure of cast alloys. Izv.vys. ucheb.zav.; chern.met. 5 no.6:100-102 '62. (MIRA 15:7)

1. Novosibirskiy elektrotekhnicheskiy institut.
(Alloys—Metallography)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

SOV/137-59-1-1270

Translation from: Referativnyy zhurnal. Metallurgiya, 1959, Nr 1, p 172 (USSR)

AUTHOR: Tushinskiy, L. I.

TITLE: The Effect of Hydrogen on the Structure and Properties of Stainless Steel (Vliyaniye vodoroda na strukturu i svoystva nerzhaveyushchey stali)

PERIODICAL: Tr. Vost.-Sib. fil. AN SSSR, 1957, Nr 6, pp 86-92

ABSTRACT: The effect of H_2 on mechanical properties (σ_b, σ_s, δ, ψ, and a_k), R_B, and microstructure of Cr-Ni steels of the 18-8 type was investigated. The specimens were saturated with H_2 in autoclaves for a period of 40 hours at a temperature of 500°C and at pressures of 1, 400, and 650 atm. It was established that H_2 sharply reduces the values of δ and ψ, increases the magnitude of σ_b and σ_s, but does not affect the microstructure. It is suggested that the influence of the H_2 on the various properties of steel is attributable to its segregation occurring in separate regions (cavities, intergranular "barrier" layers) owing to diffusion processes which take place at high temperatures and pressures.

T F

Card 1/1

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

SOV/137-59-1-1263

Translation from: Referativnyy zhurnal. Metallurgiya. 1959 Nr 1, p 171 (USSR)

AUTHORS: Tushinskiy, L. I., Revis, I. A.

TITLE: Inoculation of a High-speed Steel (Modifitsirovanive bystrorezhushchey stali)

PERIODICAL: Tr. Vost-Sib. fil. AN SSSR, 1957, Nr 6, pp 116-127

ABSTRACT: Investigations of microstructure, red-hardness, and wear resistance during cutting were carried out on two grades of high-speed steel of the following composition: 1) 0.98 - 1.12% C, 4.0 - 4.05% W, 8.05 - 8.15% Cr, and 1.25 - 1.35% V; 2) 0.86 - 0.87% C, 6.75-6.82% W, 8.45% Cr, 0.70 - 0.72% V, and 0.25% B; the steels were inoculated with Li introduced in the form of an Li-Ca alloy (30% Li and 70% Ca) in quantities of 0.025, 0.05, 0.10, and 0.25%. The steels were smelted in a HF furnace with a 5-kg capacity and were then cast into metallic molds 8x30x220 mm in size. Li was found to be a highly active inoculant which refines the grains of high-speed steel and increases its red-hardness and endurance during cutting (by a factor of 3), provided the quantity of the Li-Ca alloy introduced into the steel does not exceed 0.025%. T. F.

Card 1/1

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

EDEL'MAN, F.L.; TUSHINSKIY, L.I.

Structure of iron-aluminum alloys. Izv. vys. ucheb. zav.; chern. met. 7 no.2:131-139 '64. (MIRA 17:3)

1. Novosibirskiy elektrotekhnicheskiy institut.

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

TUSHINSKIY, L. I.

Dissertation: --"Research Into Low-and Medium-Alloy, High-Speed, Cast Steels." Cand Tech Sci, Leningrad Polytechnic Inst, Leningrad 1953.

W-30928

SO: Referativnyy Zhurnal, No. 5, Dec 1953, Moscow, AN USSR (DELETED)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

GORDEYEVA, Ye.K.; MARINETS,T.K.; TIKHODEYEV,N.N.; TUSHINSKIY,L.I.

A unit for testing metals for lasting strength and creep in ionized gaseous media. Zav.lab. 21 no.4:487-488 '55 (MLRA 8:6)

1. Leningradskiy politekhnicheskiy institut imeni M.I.Kalinina
(Creep of metals)(Metals--Testing)(Testing-machines)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

SOV/137-58-12-25239

Translation from: Referativnyy zhurnal. Metallurgiya, 1958, Nr 12, p 171 (USSR)

AUTHORS: Tushinskiy, L. I., Revis, I. A.

TITLE: High-speed Steels for Cast Tools (Bystrorezhushchiye stali dlya litogo instrumenta)

PERIODICAL: Tr. Vost.-Sib. fil. AN SSSR, 1957, Nr 6, pp 93-115

ABSTRACT: An investigation was made of low- and medium-alloy high-speed steels for cast tools. It was established that, when casting into metallic molds with subsequent treatment by cooling and tempering, steels of the following composition (in %) C 0.7, W 6.75, Cr 8.4, and V 0.77 have a service-life expectancy of 145%, whereas steels containing (in %) C 0.97, W 4, Cr 9.07, and V 1.31 have a service-life expectancy of 173% of that of forged high-speed R9 steel. These steels are recommended for cast tools for milling work.

I. B.

Card 1/1

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

S/128/63/000/001/002/008
A004/A127

AUTHORS: Tushinskiy, L.I., Tushinskaya, K.I., Smolyakova, L.G.

TITLE: Modifying silumin in pressure casting

PERIODICAL: Liteynoye proizvodstvo, no. 1, 1963, 5 - 6

TEXT: Tests were carried out with the standard АЛ 2 (AL2) alloy to find out whether the fine-grained structure obtained in pressure crystallization cannot be refined by modification with surface-active elements. The castings were produced on a type 512 machine at an operating pressure of 150 atm and a mold temperature of 195°C. The following modifiers were used: metallic sodium, its salts, 20% lithium alloy with calcium, aluminum-titantium foundry alloy with 12% Ti. The modifiers were fed into the distributing furnace at a constant temperature of 650°C. An investigation of the casting microstructure revealed the effectiveness of modifying silumin with various addition agents. Surface-active modifiers such as sodium, sodium salts, lithium, change the interrelation between aluminum and silicon. A special structure characterized by the spheroidal shape of crystals was obtained in modifying the alloy with a 0.05% Li-Ca foundry alloy.

Card 1/2

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

Modifying silumin in pressure casting

S/128/63/000/001/002/008
A004/A127

In the structure of Ti-modified alloys there are no surplus crystals of silicon and of the α solid solution. The duration of the modifier action in the molten silumin amounts to from 60 - 70 (metallic sodium) to 5 - 6 hours (titanium). As a result of applying this modification method, the output of serviceable castings increased by 40%, which is mainly due to the refined structure and increased density of the alloy. There are 3 figures.

Card 2/2

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

S/123/62/000/004/014/014
A004/A101

AUTHORS: Tushinskaya, K. I., Tushinskiy, L. I.

TITLE: Producing homogeneous eutectics of high-silicon Silumin

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 4, 1962, 20, abstract 4G122 ("Sb. tr. Nauchno-tekhn. o-vo radiotekhn. i elektrosvyazi im. A. S. Popova", 1960, no. 1, 181 - 183)

TEXT: The authors investigated pressure-casting alloys containing 11.7, 12, 13, 14, 15, and 16% Si, which were smelted in graphite crucibles to which a corresponding amount of silicon was added to the eutectic (11.7%) Silumin. The alloy was modified by adding 0.05 and 0.1% Na at 700°C. It was found that the addition of surface-active modifiers essentially alters the interrelation between the constituents in the formation of eutectic alloys. The eutectic point shifts to the right up to approximately 14.0% Si. It is possible to obtain a eutectic structure during the modification of Silumin containing approximately 14.0% Si both in casting into metal and sand molds. Reducing the heterogeneity of the Silumin structure by removing the excess dendrites of the solid solution of silicon in the aluminum, improves the mechanical and technological properties of the alloy.

Card 1/2

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

Producing homogeneous...

S/123/62/000/004/014/014
A004/A101

Thus the tensile strength limit, according to test data, increased by some 25%. There are 6 figures and 3 references.

L. Yanovskaya

[Abstracter's note: Complete translation]

Card 2/2

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

TUSHINSKAYA, K.I.; TUSHINSKIY, L.I.

Dependence of the mechanical properties of eutectoid steel on the structural state of pearlite. Izv. vys. ucheb. zav.; chern. met. 4 no.12:130-134 '61. (MIRA 15:1)

1. Novosibirskiy institut inzhenerov transporta i Novosibirskiy elektrotekhnicheskiy institut.
(Steel--Metallography) (Phase rule and equilibrium)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

35920
S/148/62/000/002/007/008
E073/E535

18.1150

AUTHORS: Edel'man, F.L., Pokrovskiy, V.V., Tushinskiy, L.I. and Dautova, A.I.

TITLE: Stability of alloy steels in molten tin

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Chernaya metallurgiya, no.2, 1962, 123-124

TEXT: The aim of the work was to determine the stability of various metals and alloys in molten tin at temperatures above 500°C. Specimens made of alloy steels of standard composition, of pure metals (titanium, tantalum and nickel) and of iron-aluminium alloys containing 2.49, 16.11, 18.44, 21.62, 25.76 and 29.36% aluminium, rest Fe were immersed for two hours in molten tin at temperatures between 400 and 1250°C. The degree of dissolution of the metal in the tin was determined by calculation from the difference between the initial and the final contents of the particular material in the tin. Titanium and tantalum proved resistant against dissolution in tin but became brittle at 600°C and above; therefore, they are unsuitable as structural materials under the given conditions. At temperatures up to 1000°C, the

Card 1/2

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

Stability of alloy steels in ... S/148/62/000/002/007/008
E073/E535

steel 1Х18Н9Т (1Kh18N9T) was the most resistant against dissolution and iron-aluminium alloys showed a satisfactory resistance. Above 1000°C, the aluminium alloys containing 16.11, 25.76 and 29.36% Al were more resistant than stainless steel. In view of their cheapness and good technological properties, iron-aluminium alloys are recommended as substitutes for stainless steel in the manufacture of apparatus intended to operate in contact with molten tin. There is 1 table.

ASSOCIATION: Novosibirskiy elektrotekhnicheskiy institut (Novosibirsk Electro-technical Institute)

SUBMITTED: March 14, 1961

Card 2/2

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

EDEL'MAN, F.L.; TUSHINSKIY, L.I.

Investigation of iron-aluminum alloys. Izv. vys. ucheb. zav.; chern. met. no.2:128-132 '61. (MIRA 14:11)

1. Novosibirskiy elektrotekhnicheskiy institut.
(Iron-aluminum alloys)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

32662

18.8300

S/126/61/012/005/026/028
E040/E435

AUTHORS: Edel'man, F.L., Pokrovskiy, V.V., Tushinskiy, L.I., Dautova, A.I.

TITLE: Superstructure and anomalous corrosion resistance

PERIODICAL: Fizika metallov i metallovedeniye, v.12, no.5, 1961, 778-779

TEXT: The anomalous drop in the corrosion resistance of ferro-aluminium alloys in the temperature interval of 550 to 580°C was investigated on cast ferroaluminium specimens containing 2.49 to 29.36% Al and impurities of C, Si, Mn, S and P in the total quantity of less than 0.5 to 0.8%. The specimens were dissolved in molten 0-1 grade tin at various temperatures (up to 1200°C) and the quantity of the dissolved ferroaluminium alloys was determined at the various test temperatures. All specimens were annealed before tests. The data obtained are shown graphically. It was found that a sharp deterioration in the corrosion resistance of ferroaluminium alloys corresponds to the temperature intervals of 500 to 600°C and 1000 to 1200°C. The absolute solubility of the test specimens with various aluminium contents is of the same order for all alloys with the exception of

Card 1/3

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

32662

Superstructure and anomalous ... S/126/61/012/005/026/028
E040/E435

those containing 16.11% Al and 25.76% Al. Alloy steels 1Х13 (1Kh13), 1Х18Н9 (1Kh18N9) and 1Х18Н9Т (1Kh18N9T), titanium and nickel tested under identical conditions had a lower corrosion resistance than the ferroaluminium alloys. Nickel was found to dissolve completely in tin at 550°C. An attempt is made to interpret the test data in terms of the previously reported concept of superstructure (Ref.1: Bradley A.I. et al. J. Iron and Steel Institute, v.125, 1932, 339; Ref.2: Sykes C. et al. J. Iron and Steel Inst., v.131, 1935, 225; Ref.3: Bradley A.I. et al. J. Iron and Steel Inst., v.141, 1940, 63) which affects the corrosion resistance properties of ferroaluminium alloys in the temperature interval of the order-disorder transformation (550 to 580°C) and arises in consequence of the disappearance of domain structure of ordered alloys and the development of lattice defects and their diffusion in crystals. The most probable cause of the observed reduction in the corrosion resistance of the alloys is the appearance of lattice defects at the instant when disorder sets in, which leads to a weakening of the interatomic bond forces. There are 1 figure and 6 references: 3 Soviet-bloc and 3 non-Soviet-bloc. The three references to English language publications are quoted in

Card 2/3

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

32662

S/126/61/012/005/026/028
E040/E435

Superstructure and anomalous ...

the text.

ASSOCIATION: Novosibirskiy elektrotekhnicheskiy institut (Novosibirsk Electrotechnical Institute)

SUBMITTED: March 13, 1961

X

Card 3/3

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

TUSHINSKIY, L.I.; TUSHINSKAYA, K.I.; SMOLYAKOVA, L.G.

Reducing the heterogeneity of eutectic alloys by inoculation. Izv. vys.uchab.zav.; chern.met. 4 no.6:125-128 '61. (MIRA 14:6)

1. Novosibirskiy elektrotekhnicheskiy institut i Novosibirskiy institut inzhenerov zheleznodorozhnogo transporta.
(Alloys—Metallography)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

S/137/62/000/002/078/1
A006/A101

AUTHORS: Tushinskaya, K. I., Tushinskiy, L. I.

TITLE: Obtaining homogeneous eutectics of high-silicon Silumin

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 2, 1962, 48, abstract 2I308 ("Sb. tr. Nauchno-tekhn. o-vo radiotekhn. i elektrosvyazi im. A. S. Popova", 1960, no. 1, 181 - 183)

TEXT: Investigations were made with alloys containing 11.7; 12; 13; 14; 15 and 16% Si. The addition of surface-active modifiers changes substantially the correlations of the components during the formation of an eutectic alloy. The location of the eutectic point is shifted to the right hand side, approximately up to 14.0%. It is possible to obtain an eutectic structure during the modification of Silumin, containing 14.0% Si, when casting in both metallic and sand molds. A reduced heterogeneity of the Silumin structure by removing excess dendrites of solid solution α raises mechanical and technological properties of the alloy. For instance, σ_b increases by about 25% during tension, according to the experimental data.

T. Rumyantseva

[Abstracter's note: Complete translation]

Card 1/1

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

18.1151 4016. 1418 1416 1413

S/148/61/000/002/011/011
A161/A133

AUTHORS: Edel'man, F. L., Tushinskiy, L. I.

TITLE: An investigation of iron-aluminum alloys

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Chernaya metallurgiya, no. 2, 1961, 128 - 132

TEXT: Nonoxidizing high-temperature alloys used at present are high-alloy steel and special alloys (with Ni, Mo, Co or other base), or low and medium-alloy steel and cast iron (mostly with Cr, Ni, Si, etc) that are oxidation-proof at 800 - 900°C. The described investigation of low-carbon Fe-Al alloys has been conducted for the reason that this is the cheapest element combination that is oxidation-resistant at 800 - 1,100°C. The alloys were prepared by mixing molten low-carbon iron with 2.49 to 29.36% Al. The initial materials were: aluminum with 0.00% Si, 0.002% Cu, and 0.17% Fe, and iron with 0.08% C, 0.15% Mn, 0.22% Si, 0.024% S, 0.018% P and 0.05% Cr. The iron was melted in an acid induction furnace with fluid slag (glass scrap); 0.15% (weight per cent) Al was added towards the end of the melting. The Iron temperature measured during pouring was 1,500 - 1,530 °C. The average weight of a melt was 1 kg. Aluminum was melted in a crucible,

Card 1/3

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

27040

S/148/61/000/002/011/011
A161/A133

An investigation of iron-aluminum alloys

overheated to 750°C, and mixed with iron poured into the crucible using a steel rod. All specimens with below 16.11% Al had coarse disoriented crystals and 1 mm deep finely grained skin. Alloys with 16.11 - 29.36% Al had a zone of acicular crystals reaching from the fine-grained skin to the axis of the ingots, and the ingots broke from relatively slight blows. The microstructure was examined in cast specimens annealed at 1,000°C for 5 h. It was a monophase solid solution in metal with up to 10.6% Al, and biphase structure in metal with more Al, with the laminar second phase on the background of a light polyhedral component (β). The lamellas were often on the boundaries of solid solution grains, and the size of lamellas was different. They were largest in alloys with 16.11 - 29.36% Al. The lamellas coagulated after 5 h annealing. The microhardness of the largest lamellas was lower than that of the base, and the difference was largest in metal with 29.36% Al. The hardness was different in different spots. The highest hardness was obtained in alloys with 22.37% Al; 5 h annealing at 1,000° reduced the hardness by 30 - 70 Brinell units in all compositions. The machinability was estimated by drilling and corresponded to the hardness. Comparing to four annealed steel grades, most of the tested alloys except for the composition with 29.36% Al were better machinable than the heat-resistant 2X13 (2Kh13) steel. The high-temperature oxidation resistance was tested in an oxidizing atmosphere of a furnace and

Card 2/3

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

S/148/61/000/002/011/011
A161/A133

An investigation of iron-aluminum alloys

measured with analytic scales. The scale on alloys with below 10.60% Al was black, porous and easily separating, but on other alloys it was very dense, pink, and stuck to the surface. In the open air the pink film rapidly covered with a loose white matter (apparantly aluminum hydroxide). The resistance to scaling at 1,000°C was somewhat higher on specimens with the cast skin left on than on specimens of same metal composition after turning. The Fe-Al alloys with above 18.44% Al had higher heat resistance than 1Kh13 steel and several times higher than the silicon and aluminum cast iron heat resistance indicated in some publications. [Essentially full translation]. There are 5 figures, 1 table and 5 Soviet-bloc references.

ASSOCIATION: Novosibirskiy elektrotekhnicheskiy institut (Novosibirsk Electrotechnical Institute)

SUBMITTED: May 4, 1960

Card 3/3

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

18 1210 2408 26585

S/148/61/000/006/009/013
E111/E480

AUTHORS: Tushinskiy, L.I., Tushinskaya, K.I., Smolyakova, L.G.

TITLE: Reducing the heterogeneity of eutectic alloys by modifying treatment

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Chernaya metallurgiya, 1961, No.6, pp.125-127

TEXT: The mechanical properties of eutectic alloys may be adversely affected by the presence of large grains of the component phases. In the case of the Al-Si eutectic, its UTS can be reduced to 13 - 14 kg/mm^2 by the formation of large grains of brittle silicon. The formation of fine eutectic and the absence of large silicon grains can be ensured by the introduction of sodium (metallic or combined) in the melt. As a result of this modifying treatment, the UTS of the alloy increases to 16 - 17 kg/mm^2. However, a modified alloy of the nominally eutectic composition contains large primary grains of the α phase (Si-rich, Al-base solid solution). It would appear, therefore, that the modifying treatment does not in this case ensure homogenization of the alloy, since the elimination of coarse silicon grains is attained at the

Card 1/3

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

26585 S/148/61/000/006/009/013

Reducing the heterogeneity ... E111/E480

cost of the appearance of the α primaries: the object of the investigation described in the present paper was to explore the possibilities of producing a modified Al-Si alloy with a truly eutectic structure and to study the effect of structure on the mechanical properties of the alloy. In preliminary experiments, the structure of alloys containing 11.7 to 16% Si and 0.12% Fe, modified with 0.1% Na, and cast into graphite or metal moulds under equal temperature conditions was examined. The results indicated that, irrespective of the experimental conditions employed, the eutectic point of the modified Al-Si system is at 14% Si. In the next series of experiments, the industrial Al-Si alloy АЛ 2 (AL2) containing 11.7% Si was used as the basis of preparing a series of experimental alloys with varying Si content. The alloys were melted in an electric crucible furnace of 80 kg capacity, in the following manner: a predetermined quantity of the AL2 alloy was added to a molten Si-rich master alloy; the melt was allowed to cool to 700°C, purified by introducing 0.2% zinc chloride and modified with 0.1% Na; after holding for 10 minutes at 700°C, the alloy was cast into sand and metallic moulds. The results can be

Card 2/3

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

26585

Reducing the heterogeneity ... S/148/61/000/006/009/013
E111/E480

summarized as follows: (1) The structure of unmodified alloys with more than 11.7% Si shows primary grains of silicon. The crystallization of silicon is prevented by the addition of sodium which, however, causes the formation of dendrites of the α phase. (2) The tendency to the formation of primary grains of either component is suppressed by introducing sodium to the 14% Si alloy which solidifies in the form of a fine eutectic. This alloy had a UTS of 21.2 kg/mm^2 and an elongation of 9% as compared with a UTS of 17.0 kg/mm^2 and elongation of 7.1% of the modified 11.7% Si alloy. There are 4 figures, 2 tables and 2 references: 1 Soviet and 1 non-Soviet.

ASSOCIATIONS: Novosibirskiy elektrotekhnicheskiy institut (Novosibirsk Electrotechnical Institute)
Novosibirskiy institut inzhenerov zheleznodorozhnogo transporta (Novosibirsk Institute of Rail Transport Engineers)

SUBMITTED: July 11, 1960

Card 3/3

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

EDEL'MAN, F.L.; POKROVSKIY, V.V.; TUSHINSKIY, L.I.; DAUTOVA, A.I.

Superstructure and the anomalies of corrosion resistance.
Fiz. met. i metalloved. 12 no.5:778-779 N '61.
(MIRA 14:12)

1. Novosibirskiy elektrotekhnicheskiy institut.
(Iron-aluminum alloys--Corrosion)
(Crystal lattices)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

TUSHINSKIY, L.I.; TUSHINSKAYA, K.I.; SMOLYAKOVA, L.G.

Inoculation of silumin in die casting. Lit. proizv. no.1:5-6 Ja '63. (MIRA 16:3)
(Silumin) (Die casting)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

EDEL'MAN, F.L.; TUSHINSKIY, L.I.

Scale resistance of iron-aluminum alloys. Izv. vys. ucheb. zav.; chern. met. 5 no.8:119-127 '62. (MIRA 15:9)

1. Novosibirskiy elektrotekhnicheskiy institut.
(Iron-aluminum alloys—Corrosion)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

TUSHINSKIY, MIKHAIL DMITRIYEVICH DECEASED 1964

Medicine 1962

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

DAVYDOVA, Marina Ivanovna, dotsent, kand.geograf.nauk; KAMENSKIY, Aleksandr Iosifovich, dotsent, kand.geograf.nauk; NEKLYUKOVA, Nina Petrovna, dotsent, kand.geograf.nauk; TUSHINSKIY, Georgiy Kazimirovich, prof., doktor geograf.nauk; VASIL'YEVA, O.S., red.; RODIONOVA, F.A., red.; CHUVALDIN, A.M., red.kart; KORNEYEVA, V.I., tekhn.red.

[Physical geography of the U.S.S.R.; textbook for students of geography and natural geography faculties of pedagogical institutes] Fizicheskaia geografiia SSSR; posobie dlia studentov geograficheskikh i estestvenno-geograficheskikh fakul'tetov pedagogicheskikh institutov. Moskva, Gos.uchebno-pedagog. izd-vo M-va prosv.RSFSR, 1960. 679 p.

(MIRA 13:12)

(Physical geography)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

TUSHINSKIY, Yu.A., inzh.; STEL'MUKHOV, A.S., inzh.

Analyzing the application of type UMK-1 narrow range complex.
Sbor.DonUGI no.20:125-133 '61. (MIRA 15:6)
(Coal mining machinery)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

TUSHINSKIY, Yu.A., inzh.

Use of the DU-1 narrow-grabbing combined machine in Donets Basin mines. Bezop.truda v prom. 3 no.9:4-5 S '59. (MIRA 13:2)

1. Donetskiy nauchno-issledovatel'skiy ugol'nyy institut.
(Coal mining machinery)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

TUSHISHVILI, A.A., Cand Tech Sci -- (diss) "Asymmetrical triphase circuits of ~~powerful~~ large-capacity electrosmelting furnaces and ~~calculation~~ determination of their parameters and electric ~~systems~~ modes."

Tbilisi, 1958. 15 pp with graphs. (Min of Higher Education USSR. Order of Labor Red Banner Georgian Polytechnic Inst im S.M. Kirov) 120 copies.

(KL, 12-58, 99)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

SOV/137-58-8-16542 D

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 8, p 44 (USSR)

AUTHOR: Tushishvili, A.A.

TITLE: Asymmetric Three-phase Circuitry for Powerful Electric Foundry Furnaces, the Determination of its Parameters and Electrical Regimes (Nesimmetrichnyye trekhfaznyye tsepi moshchnykh elektro-plavil'nykh pechey, opredeleniye ikh parametrov i elektricheskikh rezhimov)

ABSTRACT: Bibliographic entry on the author's dissertation for the degree of Candidate of Technical Sciences, presented to the Gruz. politekhn. in-t (Georgia Polytechnic Institute), Tbilisi, 1958

ASSOCIATION: Gruz. politekhn. in-t (Georgia Polytechnic Institute), Tbilisi

1. Electric furnaces--Circuits

Card 1/1

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

USTIASHVILI, A.D., prof.; TUSHISHVILI, V.M.; BAKRADZE, G.A.

Obstetric vacuum extractor. Akush. i gin. no.1:70-72 '65. (MIRA 18:10)

1. Kafedra akusherstva i ginekologii (zav.- prof. A.D. Ustiashvili) pediatricheskogo i sanitarno-gigiyenicheskogo fakul'teta Tbilisskogo meditsinskogo instituta.

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

TUSHIYEV, A., vrach

Clinical aspects and treatment of venomous snake bites. Zdrav. Turk. 7 no.3:32-34 Mr'63. (MIRA 16:6)

1. Iz Iolotanskoy rayonnoy bol'nitsy (glavnyy vrach G. Kurbanov).

(VENOM)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

ABROSKIN, P.I., kand. ekonom. nauk (Novocherkassk); SMYKOV, Ye.A.; (Novocherkassk); TUSHKANOV, B.A. (Novocherkassk)

Promising types of locomotives. Zhel. dor. transp. 45 no.11: 49-54 N '63. (MIRA 16:12)

1. Direktor Vsesoyuznogo nauchno-issledovatel'skogo instituta elektrovozostroyeniya (for Smykov). 2. Nachal'nik spetsial'nogo konstruktorskogo otdela Vsesoyuznogo nauchno-issledovatel'skogo instituta elektrovozostroyeniya (for Tushkanov).

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

TUSHKANOV, Boris Andreyevich, inzh.; BOCHAROV, Vasiliy Ivanovich, inzh.; KRUZE, Valeriy Vladimirovich, inzh.; SORIN, Naum Abramovich, inzh.; KALININ, V.K., red.; AYBASHEVA, T.V., red.;

[VL60 and VL80 main line a.c. locomotives] Magistral'nye elektrovozy peremennogo toka VL60 i VL80. [By] B.A. Tushkanov i dr. Moskva, Transport, 1964. 555 p. (MIRA 17:7)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

TUSHKANOV, B.A., inzh.

Improvement and simplification of electric curcuits for d.c. locomotives. Vest.TSNII MPS 19 no.4:18-21 '60. (MIRA 13:7)

(Electric locomotives)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

TUSHKANOV, B.A. (g.Novocherkassk)

Electric diagram for the N60 series a.c. electric locomotive.
Elek.i tepl.tiaga 3 no.5:29-33 My '59. (MIRA 12:9)
(Electric Locomotives)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

TUSHKANOV, B.A., inzhener (Novocherkassk)

The VL-23 electric locomotive. Elek.i tepl.tiaga no.10:8-13 O '57. (MIRA 10:11)

(Electric locomotives)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

SHAPIRO, I.L., inzh.; TUSHKANOV, B.A., inzh.; SVERDLOV, V.Ya., inzh.

A.C. locomotives. Vest. elektroprom. 32 no.5:13-17 My '61. (MIRA 15:5)

(Electric locomotives)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

KHLEBNIKOV, V.N.; TUSHKANOV, B.A., inzh., retsenzent; YAKOVLEV, D.V., inzh., red.

[Electric locomotive designs; mechanical section] Konstruktsii elektrovozov; mekhanicheskaia chast'. Moskva, Mashinostroenie, 1964. 302 p. (MIRA 17:12)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

TUSHKANOV, B.A.

YAKUBOVSKIY, V.Ya., inzhener (g. Novocherkassk); TUSHKANOV, B.A., inzhener (g. Novocherkassk).

Conference at the Novocherkassk electric locomotive plant. Elektrichestvo no.10:92 O '57. (MLRA 10:9)

(Novocherkassk--Electric locomotives)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

GRIGOR'YEV, Ye.T., inzhener; KOCHURAYEV, L.D., inzhener; KUROCHKA, A.L. inzhener; SUSLOV, B.V., inzhener; TUSHKANOV, B.A., inzhener; SHAPIRO, I.L., inzhener.

Design features of the VI23 electric locomotive. Zhel.dor. transp. 37 no.3:16-22 Mr '56. (MLRA 9:5)
(Electric locomotives)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

TUSHKANOV, B.A.; SHAPIRO, I.L.; YANOV, V.P.

Main-line N80 eight-axle d.c. locomotive. Sbor. nauch. trud. EINII 2:3-12 '62. (MIRA 16:8)

(Electric locomotives)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

TUSHKANOV, B.A., inzh. (g.Novocherkassk)

Eight-axle a.c. powered N80 electric locomotive for passenger service. Elek. i tepl. tiaga 5 no.8:22-30 Ag '61. (MIRA 14:9)
(Electric locomotives)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

TUSHKANOV, Boris Andreyevich; BOVE, Ye.G., kand. tekhn. nauk, retsenzent; YAKOVLEV, D.V., inzh., red.; KHITROV, P.A., tekhn. red.

[Electric networks of the N8 electric locomotive] Elektricheskie skhemy elektrovozov N8. Moskva, Vses izdatel'sko-poligr. ob"edinenie M-va putei soobshcheniia, 1961. 65 p. (MIRA 14:10)
(Electric locomotives)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1

ZOLOTAREV, P.A., inzh.-konstruktor; KOZOREZOV, M.A., inzh.-konstruktor; MELIKHOV, V.L., inzh.-konstruktor; NOVOGRENKO, N.M., inzh.-konstruktor; SVERDLOV, V.Ya., inzh.-konstruktor; Tushkanov, B.A., inzh.-konstruktor; SHAPIRO, I.L., inzh.-konstruktor

The N81 eight-axle a.c. locomotive. Elek.i tepl.tiaga 7 no.2:20-25 F '63. (MIRA 16:2)

(Electric locomotives)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757620002-1"