35408
S/076/62/036/003/006/011
B101/B108

/P. 1152

AUTHORS: Gratsianskiy, N. N., and Bogacheva, N. A. (Kiyev)

TITLE: Study of corrosion resistance of solid metal solutions of
              the system Mo - W

PERIODICAL: Zhurnal fizicheskoy khimii, v. 36, no. 3, 1962, 546 - 548

TEXT: Mo - W solid solutions were produced from pure metal powders in an
electric arc furnace with tungsten electrodes, and corroded at 20°C in
aqua regia (I) or in saturated solution of nitric acid and oxalic acid
(II). The composition of the solution formed by corrosion was analyzed.
The surface layer was removed electrolytically at high current density,
and also analyzed. Results:

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Study of corrosion resistance of ...

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| No. | A | B | | C | | D | E | |
		W	Mo	W	Mo		W	Mo
2	I	77.41	22.11	70.0	30.0	~0.3	90.9	9.1
3	I	56.44	43.10	51.0	49.0	~0.45	85.4	14.6
4	I	27.17	72.91	11.0	89.0	~0.4	45.4	54.6
2	II	77.41	22.11	64.7	35.3	~0.2	89.5	10.5
3	II	56.44	43.10	40.8	59.2	0.35	66.6	33.4
4*	II	27.17	72.91	27.17	72.9	-	-	-

* Samples dissolved within 12 hr. Legend: (A) Corroding solution, (B) content in the alloy, % by weight, (C) solution after corrosion, % by weight, (D) thickness of the removed surface layer, μ, (E) analysis of the dissolved surface layer, % by weight. In aqua regia, the limit of corrosion resistance is at ~20 atom% W, in HNO_3 + $C_2O_4H_2$ at ~50 atom%.

W. The main cause of a limit of corrosion resistance is the formation of a phase consisting of a metal compound and a corrosion resistant, 0.1 - 0.2⁻ μ thick layer of almost pure W. With ~20 atom% W, a corrosion

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Study of corrosion resistance of ...

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resistantt layer is also formed in Mo - W alloys. The position of the limit of corrosion resistance in the composition - corrosion resistance diagram depends on the type of the corroding solution. There are 1 figure, 1 table, and 4 references: 2 Soviet and 2 non-Soviet.

ASSOCIATION: Akademiya nauk USSR, Institut obshchey i neorganicheskoy khimii (Academy of Sciences UkrSSR, Institut of General and Inorganic Chemistry)

SUBMITTED: June 3, 1960

Card 3/3

GRATSIANSKIY, N. N.

Dissertation defended for the degree of <u>Doctor of Chemical Sciences</u>
at the Institute of Physical Chemistry in 1962:

"Corrosion Resistance of Two-Component Solid Metal Solutions."

Vest. Akad. Nauk SSSR.   No. 4, Moscow, 1963, pages 119-145

RYABOV, A.K.; GRATSIANSKIY, N.N.

Effect of small additions of metals on surface phenomena
during the process of hot zinc plating. Report No. 1. Ukr.
khim. zhur. 28 no.1:121-124 '62.
                                          (MIRA 16:8)

1. Institut obshchey i neorganicheskoy khimii.

GRATSIANSKIY, N.N.; BOGACHEVA, N.A.

Corrosion resistance of solid solutions of metals of the system Mo - W. Zhur. fiz. khim. 36 no.3:546-548 Mr '62.

(MIRA 17:8)

1. Institut obshchey i neorganicheskoy khimii AN UkrSSR.

S/073/63/029/004/002/003
A057/A126

AUTHORS: Gratsianskiy, N.N., Ryabov, A.K., Tobolich, V.V.

TITLE: Surface phenomena in the corrosion of solid metal solutions. The
                system Pb — Tl

PERIODICAL: Ukrainskiy khimicheskiy zhurnal, v. 29, no. 4, 1963, 408 - 410

TEXT: In continuation of earlier investigations (Zh. fiz. khim., v. 33,
no. 2 and 6, 1959) the surface tension σ of liquid Pb - Tl solution and the
pure components were measured in dependence on the concentration of the compo-
nents, and the surface activity of the components in relation to each other was
determined. The alloys were prepared in a vacuum from pure Pb and Tl and the
value σ measured in a vacuum-gravitation apparatus with special capillaries.
The structural diagram Tl - Pb shows that with an addition of Tl to Pb, σ rises
up to 30 at% Tl. The minimum σ corresponds to the composition of the transi-
tion from σ - to the γ-phase. The maximum is at the ratio Tl : Pb = 2 : 1, and
a second minimum at a composition corresponding to the transition from the γ-
to the β-modification. Addition of Pb to Tl causes a sharp drop of the surface

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Surface phenomena in the corrosion of solid S/073/63/029/004/002/003
                                                        A057/A126

tension of thallium. Hence, in this system lead is the surface-active component.
In corrosive media, where lead is more resistant than thallium, the former will
diffuse to the limit alloy - corrosion medium and promote the formation of a
corrosion resistant surface layer. The surface tension of pure thallium at
390°C was determined to be 507 erg/cm². There is 1 figure.

ASSOCIATION: Institut obshchey i neorganicheskoy khimii AN USSR (Institute of
             General and Inorganic Chemistry of the AS UkrSSR)

SUBMITTED: June 23, 1962

Card 2/2

VDOVENKO, I.D.; GRATSIANSKIY, N.N.

Effect of organic additions on the corrosion of binary alloys of nonferrous and rare metals in aggressive media. Ukr. khim.zhur. 29 no.9:983-987 '63.

(MIRA 17:4)

1. Institut obshchey i neorganicheskoy khimii AN UkrSSR.

GRATSIANSKIY, N.N.; RYABOV, A.K.; TOBOLICH, V.V.

Effect of small additions of metals on the surface phenomena during hot lead plating. Report No.2. Ukr. khim. zhur. 29 no.11:1219-1222 '63.

(MIRA 16:12)

1. Institut obshchey i neorganicheskoy khimii AN UkrSSR.

RYABOV, A.K.; GRATSIANSKIY, N.N.

Effect of small admixtures of metals on the physicochemical
properties of zinc coatings. Ukr. khim. zhur. 30 nc.8:883-886
'64.
                                                    (MIRA 17:11)

1. Institut obshchey i neorganicheskoy khimii AN UkrSSR.

L 1591-66   EWT(m)/EWP(t)/EWP(z)/EWP(b)   IJP(c) JD/HW/JG/MJW(CL)

ACCESSION NR: AP5020953   UR/0073/65/031/008/0799/0804

AUTHOR: Lisogor, A. I.; Gratsianskiy, N. N.

TITLE: Electrolytic deposition of a nickel-molybdenum alloy

SOURCE: Ukrainskiy khimicheskiy zhurnal, v. 31, no. 8, 1965, 799-804

TOPIC TAGS: electrolytic deposition, electrolyte, nickel base alloy, molybdenum containing alloy, nickel compound, molybdenum compound

ABSTRACT: The work deals with the combined deposition of molybdenum and nickel from peroxymolybdate containing electrolytes. The deposition was conducted with a platinum anode and copper bar anode for 30 minutes at 30-70 C, at a cathode current density of 40 amp/dm^2, with electrolytes containing varying amounts of $Na_2MoO_4 \cdot 2H_2O$, hydrogen peroxide and nickel sulfate, and a pH varying from 2 to 0.2 (through H_2SO_4 addition). Results obtained with the various concentrations are described and the influence and optima are reported for each factor of the process. Optimal conditions for obtaining dense, shiny depositions

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ACCESSION NR: AP5020953

with 20% molybdenum content require the following electrolyte: $NiSO_4 \cdot 7H_2O$-400 g/lt, Na_2MoO_4-$2H_2O$- 10 g/lt, hydrogen peroxide (30%) - 15 ml/lt, H_2SO_4 to a pH 0.7. The electrolysis should be conducted at a current density of 40 amps/cm^2 at 50 C. Yield in respect to current is about 15%. With an electrolyte of the composition 600 g/lt nickel, 10g/lt molybdenum compound, 20 ml/lt peroxide, and with a pH of 2 and a d_c of 10 amps/dm^2 at the same temperature, an alloy with a 17% molybdenum content and a 50% yield in respect to current is obtained. The deposits are easily removed from the cathode and may be used as master alloys. Orig. art. has: 7 figures

ASSOCIATION: Institut obshchey i neorganicheskiy khimii AN UkrSSR (Institute of General and Inorganic Chemistry AN, UkrSSR)

SUBMITTED: 15Jul64   ENCL: 00   SUB CODE: MM

NR REF SOV: 013   OTHER: 009

Card 2/2

LISOGOR, A.I.; GRATSIANSKIY, N.N.

Peroxymoloybdate complex compounds in acid solutions. Ukr.
khim. zhur. 31 no.9:895-898 '65.   (MIRA 18:11)

1. Institut obshchey i neorganicheskoy khimii AN UkrSSR.

L 36053-66   ANT(m)/T/EWP(t)/ETI   IJP(c)   JD/WB

ACC NR: AP6015903   (N)   SOURCE CODE: UR/0073/65/031/012/1333/1337

AUTHOR: Bogacheva, N. A.; Gratsianskiy, N. N.

ORG: Institute of General and Inorganic Chemistry (Institut obshchey i neorganicheskoy khimii)

TITLE: Corrosion resistance of thallium-lead and indium-thallium alloys in a hydrochloric medium

SOURCE: Ukrainskiy khimicheskiy zhurnal, v. 31, no. 12, 1965, 1333-1337

TOPIC TAGS: corrosion resistance, thallium containing alloy, indium containing alloy, lead containing alloy, hydrochloric acid

ABSTRACT: The article gives experimental data on the corrosion resistance of indium-thallium and thallium-lead solid solutions in hydrochloric acid solution as a function of the concentration of the alloys, and also on the behavior of indium-thallium alloys in a 5% solution of sodium chloride. The experimental temperature was $+20° + 2°$. Starting materials were pure lead, thallium and indium (approximately 99.999%). For each system, 11 alloys were prepared with the following thallium contents: 2, 10, 25, 40, 45, 50, 55, 60, 75, 90, and 98%. Samples of the indium-thallium system were stamped disks 2 mm thick with

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L 30053-66

ACC NR: AP6015903

a total surface of 3.2 cm^2. In the thallium-lead system, they were cast cylinders with a working surface up to 1 cm^2. The tests were made by the weight and potentiometric methods. The results are shown in a series of curves. It was found that thallium is corroded to a considerable degree in hydrochloric acid of different concentrations, with free access of air to the solution. In all the media tested thallium was corroded more strongly than lead. Working of the surface of the metals and alloys increases the corrosion resistance of thallium-lead alloys. The rate of corrosion of lead-thallium and indium-thallium alloys increases with an increase in the hydrochloric acid concentration. The change in the corrosion rate of lead-thallium and indium-thallium alloys as a function of their composition is explained by phase transformations and by the formation of compounds of the metals. Orig. art. has: 04 figures.

SUB CODE:11,07/ SUBM DATE: 13Nov64/ ORIG REF: 005/ OTH REF: 009

Card 2/2   vmb

L 36874-66   EWT(m)/T/EWP(t)/ETI   IJP(c)   DS/JD/HW/JG
ACC NR: AP6017650   (A)   SOURCE CODE: UR/0073/66/032/001/0016/0019

AUTHOR: Lisogor, A. I.; Gratsianskiy, N. N.

ORG: Institute of General and Inorganic Chemistry, Academy of Sciences UkrSSR
(Institut obshchey i neorganicheskoy khimii AN UkrSSR)

TITLE: Cathode polarization during codeposition of nickel and molybdenum

SOURCE: Ukrainskiy khimicheskiy zhurnal, v. 32, no. 1, 1966, 16-19

TOPIC TAGS: cathode polarization, electroplating, nickel, molybdenum, nickel alloy, molybdenum alloy

ABSTRACT: The Ni-Mo alloy deposits were prepared by electrolysis of the solution of
$NiSO_4 \cdot 7H_2O$(600 g/l) + $Na_2MoO_4 \cdot 2H_2O$(10 g/l) + 30%-H_2O_2(20 ml/l) + H_2SO_4(up to pH =
2.0) at 50°C. The effects of H_2O_2 concentration and temperature and pH on cathode
polarization were graphed. Low overvoltage on the Ni-Mo alloy plated electrode and
ready alloy deposition are attributed to the ability of nickel to dissolve hydrogen.
The increase in Mo content in alloys at lower pH of the electrolyte is attributed
to a drop in the dissociation of the $HMo_2O_{11}^-$ ions. The electrochemically deposited

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UDC:

L 36874-66
ACC NR: AP6017650

Ni-Mo alloys were found (by x-ray technique) to be α-solid solutions with a cubic face-centered crystal lattice. After thermal treatment at 1000°C in an argon atmosphere for 2 hours, the lattice parameter of the Ni-Mo alloy was found to be 3.548 Å. Orig. art. has: 4 figures.

SUB CODE: 11,09/ SUBM DATE: 15Jul64/ ORIG REF: 009/ OTH REF: 001

Card 2/2

ACCESSION NR: AP4030334

S/0049/64/000/003/0322/0338

AUTHOR: Orsteinskiy, V. O.

TITLE: Investigation of elastic waves in the model of a drill hole

SOURCE: AN SSSR. Izv. Ser. geofiz., no. 3, 1964, 322-338

TOPIC TAGS: elastic wave, acoustical logging, drill hole logging, head wave

ABSTRACT: The author has discussed a model to show the wave distribution arising during acoustical logging of a drill hole. The model consists of a block of marble 60 x 60 x 95 cm with a hole (112 mm in diameter) drilled parallel to the long dimension and filled with water. Results confirm the kinematic conclusions concerning the propagation of elastic waves along the surface of a hole as previously discussed by the author (Kinematicheskiye osobennosti volnovoy kartiny pri ul'trazvukovom karotazhe skvazhin, Izv. AN SSSR, ser. geofiz., no. 7, 1963; Kinematika volnovy*kh frontov pri karotazhe skvazhin s raspredelennywmi preobrazovatelyami, Izv. AN SSSR, ser. geofiz., no. 8, 1963). At some distance from the initial points along the propagation path of energy on the surface of the hole, the waves are deflected from the shortest geometrical path as computed from

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ACCESSION NR: AP4030334

geometric seismic considerations. More work is needed to define the cause of this. When PPP and PSP waves form, which are useful for acoustical logging, an insignif- icant part of the energy (of all the elastic energy emitted by the radiator) is dissipated. The form of the pulses of these waves does not depend on the distance the radiator is from the hole. As the pulse broadens with distance, the velocity, changing in phase, is less than the velocity of the wave front, and the difference in velocities increases the nearer the detectors are to the radiator and the more distant the phase is that is used for measuring. Waves reaching the detectors directly through the liquid in the hole are highly multiphase and poorly resolved vibrations, consisting of direct waves and of waves repeatedly reflected from the walls of the hole. In making acoustical logs, observations should be made with the sonde parallel to the axis of the hole, a technique that requires careful stabili- zation. Orig. art. has: 12 figures, 1 table, and 4 formulas.

ASSOCIATION: Akademiya nauk SSSR, Institut fiziki Zemli (Academy of Sciences SSSR, Institute of Physics of the Earth)

SUBMITTED: 18Apr63   DATE ACQ: 29Apr64   ENCL: 00

SUB CODE: ES   NO REF SOV: 002   OTHER: 000

Card 2/2

ACCESSION NR: AP4041178

S/0049/64/000/006/0819/0838

AUTHOR: .Gratsinskiy, V. G.

TITLE: Amplitudes of glancing waves on the surface of a borehole

SOURCE: AN SSSR. Izv. Seriya geofizicheskaya, no. 6, 1964, 819-838 .

TOPIC TAGS: seismology, seismic prospecting, borehole, seismic wave, seismic modeling, seismic wave pattern, absorption coefficient

ABSTRACT: The author describes the time field of refracted and diffracted waves in a medium surrounding a borehole for any form or dimension of the acoustic source, and derives formulas for the amplitudes of the glancing waves in vertical and spiraling rays; these formulas are confirmed by the results of modeling. Modeling data are also used in determining the amplitude curves of a glancing wave on the generatrices of a cylinder and the field of amplitudes of a glancing wave on the surface of a borehole. The apparatus used in modeling, the processing method and the model itself were previously described by the author (Izv. AN SSSR, Ser. geofiz., No. 3, 1964). It was found in modeling that when the point source has an axial position in the borehole the exponent for the function of divergence between the glancing and head waves is 3/2. In acoustic logging of boreholes it is necessary

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ACCESSION NR: AP4041178

to stabilize the position of the probe in the borehole rigorously. Due to an increase in the divergence of the glancing wave, the approach of the probe to the borehole wall will produce no increase in the amplitude of the received signal. The decrease in amplitude of glancing waves during measurement along the generatrices of a cylinder ($\Psi \neq 0$, $r_0/R \neq 0$) differs considerably from the decrease in amplitude on the profile $\Psi = 0$. If the charge in the borehole has an arbitrary position this phenomenon can result in obtaining erroneous data on the absorption coefficient in the surrounding rocks. Orig. art. has: 57 formulas, 14 figures and 1 table.

ASSOCIATION: Institut fiziki Zemli, Akademiya nauk SSSR (Institute of Geophysics, SSSR Academy of Sciences)

SUBMITTED: 26Jun63

SUB CODE: ES

NO REF SOV: 006

ENCL: 00

OTHER: 001

Card 2/2

ACC NR: AP7001911   SOURCE CODE: UR/0387/66/000/012/0045/0053

AUTHORS: Gratsinskiy, V. G.; Dakhnov, G. V.

ORG: Institute of Earth Physics, Academy of Sciences SSSR (Institut fiziki Zemli, Akademii nauk SSSR) VNIIGeofizika

TITLE: A method of interpreting acoustical logs of the LAK-1 equipment

SOURCE: AN SSSR. Izvestiya. Fizika Zemli, no. 12, 1966, 45-53

TOPIC TAGS: acoustic recording, phase velocity, correlation function, acoustic logging, velocity profiling, elastic wave propagation

ABSTRACT: A method of interpreting logs obtained from the LAK-1 equipment, designed by the Laboratory of Acoustic Logging and manufactured in the Soviet Union in 1962, is presented. Prior to this, interpretation of acoustic logs has been meager--generally only one parameter, the longitudinal-wave velocity, has been determined by means of first arrivals. The acoustic log represents the record of a complex of waves of many kinds, affected by equipment and drilling mud in the hole as well as by   rocks. Interpretation has therefore been a complex problem, but the authors seek to show how individual waves may be discriminated and how correlations may be made. The design of the LAK-1 equipment was   previously described by G. V. Dakhnov, A. L. Perel'man, G. Ya. Rabinovich, and T. V. Shcherbakova (Laboratoriya akusticheskogo karotazha tipa LAK-1, Prikl. geof., No. 43, 1965) and by G. Ya. Rabinovich and T. K. Zorin (Raschleneniye razrezov skvazhin po diagrammam LAK-1, Sb. Voprosy razvedochnoy

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UDC: 550.834

ACC NR: AP7001911

geofiziki, No. IV, 1964). By investigation of acoustic logs the authors have found it possible to discriminate any wave where the phase amplitude is 1.75 times the background (or more). Thin, thick, and intermediate beds were examined, and velocity formulas were obtained for all. The computations do not require absolute times for wave transmission, merely changes in time relative to a given point. The authors consider the most suitable technique for discriminating waves to be the use of the correlation criterion, specific for the equipment used and based on the form of the phase-correlation lines. On the log, each elastic wave is distinguished by a series of almost parallel lines of phase correlation. The application of this technique is shown graphically for different kinds of waves. For the first time, Rayleigh waves at a surface that is not free (PRP) have been distinguished in this way on acoustic logs in actual practice. Orig. art. has: 6 figures and 16 formulas.   [09]

SUB CODE: 08/ SUBM DATE: 15Dec65/ ORIG REF: 007/ OTH REF: 005/
 ATD PRESS: 5112

Card 2/2

GKHTSIANSKIY, VLADIMIR N.

GRATSIANSKIY, Vladimir Nikolayevich; MIKHAYLOVSKIY, Yuriy Vsevoledovich; ROGOV, A.Ya, retsenzent; ATRAN, S.L. , retsenzent; ROMANENKO, P.N., redaktor; PITERMAN, Ye.L., redaktor izdatel'stva; SHITS, V.P., tekhnicheskiy redaktor.

[Power plants] Silovye ustanovki. Moskva, Goslesbumizdat. 1956.
303 p.   (MLRA 10:4)
                    (Electric power plants)

GRATSIANSKIY, Vladimir Nikolayevich; MIKHAYLOVSKIY, Yuriy Vsevolodovich;
        Prinimal uchastiye ROMANENKO, P.N.; MIKHAYLOVA, L.G., red. izd-
        va: GRECHISHCHEVA, V.I., tekhn. red.

        [Fundamentals of heat engineering and power plants] Osnovy teplo-
        tekhniki i silovye ustanovki. Izd., perer. i dop.   Moskva, Gos-
        lesbumizdat, 1962. 434 p.   (MIRA 16:7)
                (Heat engineering)   (Power plants)

GRATSIANSKIY, V. P.   C/1963

TUBERCULOSIS   1964

DECEASED

GRATSIIEV, V.M.

Laying the brickwork of blast furnace bottoms and crucibles.
Biul. TSSICHM no.5:38-40 '61.   (MIRA 14:10)

1. Trest "Yuzhdomnaremont"
                        (Blast furnaces--Design and construction)

GRATSINSKI, P.

Case of diphasic rupture of the spleen. Khirurgiia, Sofia 12 no.7: 655-656 '59.

1. Iz Katedrata po bolnichna khirurgiia - VMI - Sofia.
    (SPLEEN wds & inj.)

GRATSINSKIY, V.A.

Lightweight grinding machines are needed. Put' i put, khoz.
no.6:19 Je '59.
(MIRA 12:10)

1.Zamestitel' nachal'nika distantsii, stantsiya Moskva-Paveletskaya.
(Grinding machines)

GRATSINSKIY, V.G.

Distortions of seismic pulse spectra by resonance analyzers and method for their elimination. Izv. AN SSSR. Ser. geofiz. no.10: 1488-1501 O '61. (MIRA 14:9)

1. AN SSSR, Institut fiziki Zemli.
(Seismometry)

GRATSINSKIY, V.G.

Spectrum of a segment of a sinusoid. Izv. AN SSSR. Ser.
geofiz. no.11:1552-1556 N '62.   (MIRA 15:11)

1. Institut fiziki Zemli AN SSSR.
                    (Elastic waves--Spectra)

GRATSINSKIY, V.G.

Kinematic features of the wave picture in ultrasonic logging.
Izv. AN SSSR. Ser. geofiz. no.7:1021-1039 Jl '63.   (MIRA 16:8)

1. Institut fiziki Zemli AN SSSR. Predstavleno chlenom
redaktsionnoy kollegii Izvestiy AN SSSR, Seriya geofizicheskaya,
Yu.V. Riznichenko.

(Logging (Geology))

GRATSINSKIY, V.G.

Kinematics of wave fronts in logging with distributing transformers.
Izv. AN SSSR. Ser. geofiz. no.8:1178-1197 Ag '63. (MIRA 16:9)

1. Institut fiziki Zemli AN SSSR. Predstavleno chlenom redaktsionnoy kollegii Izvestiy AN SSSR, Seriya geofizicheskaya, Yu.V.Riznichenko.
(Logging (Geology))

S/137/61/000/008/028/037
A060/A101

AUTHORS: Gratsyanov, Yu. A., Gerasimenko, A. A.

TITLE: New magnetically-soft iron-nickel-silicon deformable alloys

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 8, 1961, 12, abstract 8196
               ("Sb. tr. Tsentr. n.-i. in-t chernoy metallurgii", 1960, no. 23,
               34-46)

TEXT: As result of a study of the effect of various additives upon the
engineering and magnetic characteristics of Fe-Ni-Si alloys containing 8 - 11%
Si and 5 - 20% Ni, the possibility is established of obtaining deformable alloys
with high-grade magnetic properties, containing 8 - 9% Si and 10 - 14% Ni with
admixtures of up to 1.0% Cr up to 0.1% Ce, and up to 0.01% Li. The peculiarities
of the manufacture of strips from the abovementioned alloys are established - a
slowed down cooling schedule for the castings and their heating up before forging
or hot-rolling, heating up of the hot-rolled sheets before rolling down to strip
with 0.35 mm thickness, and some peculiarities of the rolling schedules are
indicated. There are 12 references.

[Abstracter's note: Complete translation]   T. Rumyantseva
Card 1/1

GRATSYANSKAYA, Lyubov' Nikolayevna

[Occupational polyneuritis] Professional'nye polinevrity.
Leningrad, Medgiz, 1960. 112 p.   (MIRA 13:9)
                    (NEURITIS, MULTIPLE)

H/016/63/000/003/003/003
D249/D307

AUTHOR: Gratton, Livio

TITLE: Stellar evolution

PERIODICAL: Fizikai Szemle, no. 3, 1963, 79-84

TEXT: This is a translation of an introductory paper on
the problems of stellar evolution, given at the summer course organ-
ized by the Italian Physicial Society in Ravenna, in 1962. A brief
historical introduction to the subject is given. This introduction
is followed by an outline of problems in the present state of devel-
opment. The correct time scale of the formation of stars has been
found. The age of the oldest spherical aggregates is 10^{10} years,
but stars are also formed now in our and other galaxies. It has
been widely assumed that the stars were formed from the scattered
interstellar gases or dust which condensed into smaller clouds and
finally contracted into dense bodies owing to gravitational instabi-
lity. This theory is disputed by Ambartsumyan and co-workers, who
propose that stars and interstellar material were formed simultan-

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Stellar evolution   H/016/63/000/003/003/003
                                          D249/D307

eously from some protostellar material, the properties of which are
unknown. Theories of the formation of elements are reviewed. Fin-
ally, the role of fundamental physics research in the future devel-
opment of astrophysics is reviewed, in an attempt to forecast future
progress. Translated into Hungarian by Iván Abonyi. There are 16
references: 2 Soviet-bloc and 14 non-Soviet-bloc.

Card 2/2

GRATZER, G. (Budapest)

On the class of subdirect powers of a finite algebra.
Acta math Szeged 25 no.1/2:160-168 '64.

1. Submitted June 26, 1963.

GRATZER, G.; SCHMIDT, E.T.

Characterizations of congruence lattices of abstract algebras.
Acta math Szeged 24 no.1/2:34-59 '63.

1. Mathematical Institute of the Hungarian Academy of
Sciences, Budapest. Submitted March 17, 1962.

GRATZER, Gy.; SCHMIDT, E.

Ideals and congruency relations of nets. p. 93.   (Magyar Tudomanyos Akademia,
Vol. 7, No. 1, 1957, Budapest, Hungary)

SO: Monthly List of East European Accessions (EEAI) LC, Vol. 6, No. 8, Aug 1957. Uncl.

GRATZER, GY.

Ideals of lattices and its congruence relations. II.

P. 417 (Magyar Tudomayos Akademia, Matematikai es Fizikai Osztaly. Koslemenyei.
Vol. 7, no. 3/4 1957. Budapest, Hungary)

Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 2
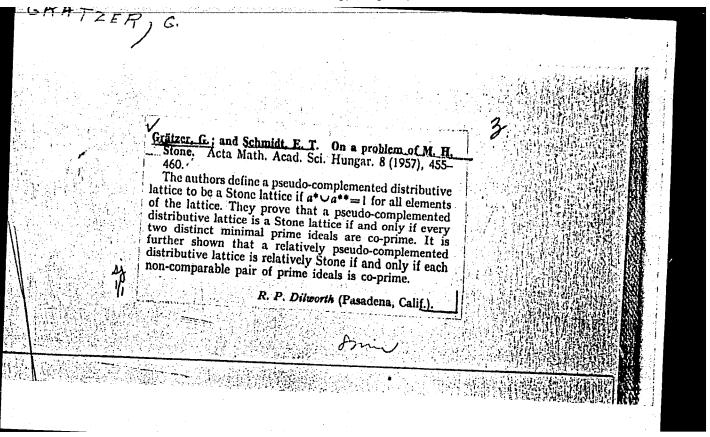February, 1958
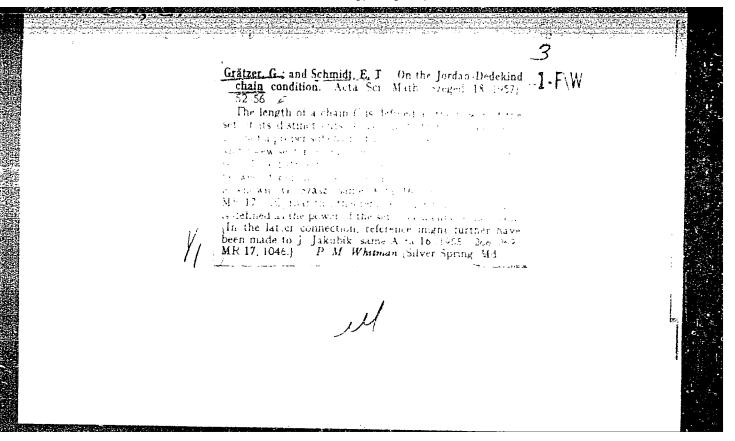
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_3_

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The length of a chain f is defined as the [...]
set of its distinct cuts [...]
[...]
[...]
[...]
[...]
[...]
M[...] 17 [...] that [...]
is defined as the power of the set [...]
In the latter connection, reference might further have
been made to j Jakubik same A [...] 16 1955 266 [...]
MR 17, 1046.}   P M Whitman (Silver Spring, Md

1-F\W

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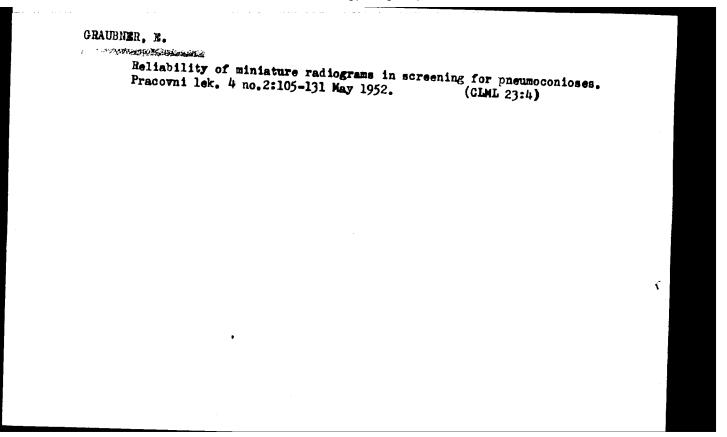
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Country: Czechoslovakia

Academic Degrees: Doc Dr

Affiliation: Tuberculosis Department of the Municipal Institute of Public
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Source: Chief (Prednosta): Doc Dr E Graubner

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doktor tekhnicheskikh nauk, redaktor; YEZDOKOVA, M.L., redaktor
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