

## 資料室 だより

## BISI Translation 紹介

— No. 74 —

## BISI Translation の特長

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またこの翻訳論文の刊行準備のできたものの Title, Abstract および出典について Translations Available (Weekly) が刊行されたり、また Ironmaking and Steelmaking に掲載され、事前にどんな論文が出るかわかるようになっていきます。

BISI Translations を利用すれば英国米、以外の主要製鉄国の主要論文をきわめて容易に知ることが可能で、これによる時間的利得は非常に大きいと考えられます。

資料委員会では 1965 年より業界の協力のもとに共同購入してまいりました。

次に列記いたしました Title は最近入手したものです。複写は禁止されておりますので閲覧のみに限ります。

“資料室だより”の別刷ご希望の方は調査課までご連絡下さい。無料でさし上げます。Tel. (279) 6021

## BISI Translations List Nos. 816—820

**Management Planning and Control**

BISI 14780 (L. L. Zusman)

Evaluating the quality of metal products.

[Stal', 1976, (6), 549—552] (R)

BISI 14783 (Yu. A. Krivtsov)

Norming and the mechanism of change in the amount of materials required for steel production.

[Stal', 1976, (6), 564—567] (R)

**Physical Structure of Materials and Crystallography**

BISI 14478 (V. A. Tatarchenko, et al)

Stability of the process of solidification from the molten state. Report 2.

[Izv. VUZ Chern. Met., 1976, (3), 140—144] (R)

BISI 14639 (N. M. Aleksandrova, et al)

Special features of the structure of the surface layers of rail steel ingots.

[Stal', 1976, (5), 459—460] (R)

BISI 14786 (M. S. Petrushevskii, et al)

Solubility of hydrogen in molten iron alloyed with germanium.

[Izv. VUZ Chern. Met., 1976, (6), 5—8] (R)

BISI 14848 (J. Pavlossoglou, and H. Burkhardt)

Multi-stage diffusion of carbon into a steel surface.

[Hart. Tech. Mitt., 1976, 31, (4), 209—213] (G)

BISI 14792 (D. Ya. Povolotskii, et al)

Redistribution of inclusions suspended in a melt with directional iron crystal growth.

[Izv. VUZ Chern. Met., 1976, (6), 61—65] (R)

**Physical Metallurgy and Metallography**

BISI 14569 (F. Schmidtman)

Factors affecting the parameters of fracture toughness of steel and conditions for using fracture mechanics in determining brittle fracture

safety in structure parts.

[Berg-U. Huttenmannische Monatsh 1976, 121, (3), 63—70] (G)

BISI 14744 (J. Jedlicka)

Cooling of rolling products and calculations for cooling banks.

[Hutn. Listy, 1976, (3), 170—174] (C)

BISI 14895 (G. I. Silman)

Question of selection of standard state for the components of a polyphase system.

[Izv. VUZ Chern. Met., 1976, (7), 8—13] (R)

BISI 14799 (B. A. Apaev, and B. I. Voronenko)

Change in coercive force and saturation magnetization in N18K9M5T during  $\alpha \rightleftharpoons \gamma$  transformation.

[Izv. VUZ Chern. Met., 1976, (6), 102—105] (R)

BISI 14806 (E. L. Gyulikhandanov)

Equilibrium diagram for controlled natural gas atmospheres and carbon steels.

[Izv. VUZ Chern. Met., 1976, (6), 145—147] (R)

**Physical Properties and Chemical Analysis**

BISI 14258 (H. Schneider)

Contribution to the reflection characteristics of ultrasonic waves from rectangular notches in specimens with curved surfaces.

[Verein Deutscher Eisenhüttenleute, Fachausbericht 6.002 68—106] (G)

BISI 14644 (N. E. Bodakin, et al)

Viscosity of molten Fe-S-P-O system alloys.

[Izv. VUZ Chern. Met., 1976, (5), 9—11] (R)

BISI 14715 (M. Schulz)

An interferometric measuring method to determine the selection of rolled stock.

[Stahl. u. Eisen, 1976, 96, (11), 531—533] (G)

BISI 14361 (Yu. M. Abzalov, and A. S. Nevskii)

Calculation of the thermal conductivity of bed

- of lump material without gas passing through it.  
[Izv. VUZ Chern. Met., 1976, (2), 53—56] (R)
- BISI 14510 (D. Cosma)  
Consideration on the structure of molten stainless steel containing chromium, manganese, nickel and nitrogen as alloying elements.  
[Arch Eisenhüttenwesen, 1970, 41, (4), 309—313] (G)
- BISI 14623 (B. Marincek)  
Thermodynamics of the magnesium treatment of molten cast iron.  
[Giesserei Techn. Wissenschafte Beihefte. 1965, 17, April, 57—60] (G)
- BISI 14825 (M. Prihoda, et al)  
Digital calculation of the steel-ladle preheating cycle.  
[Sbornik VŠB Ostrava, 1975, 21, (1), 65—77] (C)
- BISI 14826 (P. Jurečka, et al)  
Calculation of ladle heating for the electric steelworks at Dřív.  
[Sbornik VŠB Ostrava, 1975, (1), 79—95] (C)
- BISI 14914 (E. E. Shevtsov, et al)  
Quantitative assessment of the boiling intensity of a steelmaking bath.  
[Izv. VUZ Chern. Met., 1976, (7), 179—181] (R)
- BISI 14600 (P. Gmilkowsky)  
Numerical calculation of the distribution of magnetic field strength in ferromagnetic bodies as basic for mathematical modelling of induction heating processes.  
[Wissz. TH Ilmenau 1974, 20, (3), 89—101] (G)
- Mechanical Properties and Material Defects**
- BISI 14750 (J. Takacs, and B. Vorsatz)  
Sampling for carbon analysis of high-carbon iron alloys.  
[Bany. Kohasz. Lapok, (Ontode), 1976, 27, (4), 88—89] (H)
- BISI 14887 (E. N. Isakov)  
Strength of metal-cored steel wire rope.  
[Stal', 1976, (7), 642—643] (R)
- BISI 14693 (H. Wustenberg, et al)  
The choice of crystal shapes for ultrasonic testing with angle probes.  
[Materialprüfung, 1976, 18, (7), 223—230] (G)
- BISI 14702 (K. Kolb, and M. Wolfel.)  
Ultrasonic acceptance testing of butt-welded plastic pipe joints.  
[Materialprüfung, 1976, 18, (5), 167—170] (G)
- BISI 14655 (V. N. Brinza, et al)  
Mechanism of the formation of surface disruption during the rolling of ingots of stainless steels.  
[Izv. VUZ Chern. Met., 1976, (5), 116—120] (R)
- BISI 14407 (J. Telecky, et al)  
The reasons for the folding of the longitudinal edges of CSN 17 020 and 17 012 plates.  
[Hutník 1975, (10), 385—391] (C)
- Corrosion and Corrosion Testing**
- BISI 14683 (D. Knotkova, et al.)  
Regional protection of steel structures from atmospheric corrosion.  
[Strojirenstvi, 1975, (10), 597—609] (C)
- BISI 14823 (V. Cíhal)  
The problem of corrosion cracking of steels.  
[Strojirenstvi, 1975, (10), 610—614] (C)
- BISI 14827 (L. Cerveny)  
Methods and apparatus diagnostic of the climatic stress of stored products.  
[Koroze a Ochrana Materialu, 1975, (4), 88—92] (C)
- BISI 14814 (J. Bidleň)  
Low-carbon steel nitriding influence in an NH<sub>3</sub>-atmosphere on corrosion resistance.  
[Koroze a Ochrana Materialu, 1975, (5), 103—105] (C)
- Protection of Materials**
- BISI 14676 (A. Chvatal)  
Factors influencing the coating quality in the electrostatic spraying of powder materials.  
[Koroze a Ochr. Mat., 1975, (3), 54—61] (C)
- Rolling**
- BISI 14671 (F. Urbanec, et al.)  
Automated system for collecting and processing operation data in a tuba and cold rolling section mill at the NHKG at karvina.  
[Hutnicke listy, 1976, (4), 283—286] (C)
- BISI 14709 (H. Hohne, and A. Pohl)  
Continuous measurement of the cross-sectional area of rolling stock in a rod and bar mill.  
[Stahl u. Eisen, 1976, 96, (11), 524—527] (G)
- BISI 14777 (Yu. A. Postonogov, and Ch. Khabibvand)  
Pass design and rolling of parallel flange beams on a mill with one universal stand.  
[Stal', 1976, (6), 534—537] (R)
- BISI 14778 (V. A. Parshin, et al.)  
Mastering the rolling of the starting grade on the 1500 bloom mill of nizhnii tagil metallurgical combine.  
[Stal', 1976, (6), 538—539] (R)
- BISI 14785 (I. Ts. Podol'skii, et al.)  
Special features of water supply to modern section rolling mills.  
[Stal', 1976, (6), 571—572] (R)
- BISI 14794 (D. I. Starchenko, et al.)  
Effect of degree of deformation and the industrial lubricant of pressure in the cold rolling of steel.  
[Izv. VUZ Chern. Met., 1976, (6), 78—80] (R)
- BISI 14810 (J. Tichy)  
Natural strain resistance and specific rolling pressure of high-grade steels under the rolling conditions of a continuous strip mill.  
[Hutn. Listy, 1976, (5), 323—327] (C)
- BISI 14834 (B. Berger, et al.)  
The influence of roll bending systems on the thickness profile of strip and sheet.  
[Stahl Eisen, 1976, 96, (8), 377—381] (G)
- BISI 14883 (A. V. Tret'Yakov, et al.)  
Experimental investigations of the deflection of the backup roll of a four-high mill.  
[Stal', 1976, (7), 629—631] (R)
- BISI 14906 (G. G. Grigoryan, et al.)  
Estimate of deformation scheme in analysing

- shape formation during sheet rolling.  
[Izv. VUZ Chern. Met., 1976, (7), 88—92] (R)
- BISI 14908 (V. M. Salganik, and I. I. Osherov)  
Calculation of loads and deflections of a four-high roll system with shoulders on the work rolls. Communication 1.  
[Izv. VUZ Chern. Met., 1976, (7), 116—120] (R)
- BISI 14933 (M. Zur, et al.)  
Use of two-component filters for water treatment at a hot wide strip mill.  
[Stahl Eisen, 1976, 96, (7), 325—329] (G)
- BISI 14793 (V. I. Shiryaev, and S. F. Klyuikov)  
Investigation of the deformation of grooved rolling mill rolls.  
[Izv. VUZ Chern. Met., 1976, (6), 72—74] (R)
- Metalworking, Excluding Rolling**
- BISI 14710 (G. Pursian, et al.)  
Hot tearing of forging ingots during initial forging in the temperature range where aluminium nitrides are dissolved and precipitated.  
[Neue Hütte, 1976, 21, (4), 231—235] (G)
- BISI 14668 (Z. Hamza)  
Note on the effect of rolling conditions on the properties of seamless tubes made of ČSN 11 523 and of ČSN 11 503 modified steels.  
[Hutnicke listy, 1976, (2), 102—106] (C)
- BISI 14795 (V. V. Shveikin, et al.)  
Investigation of thin-wall tube rolling with a short travelling mandrel on a three-roll mill.  
[Izv. VUZ Chern. Met., 1976, (6), 81—85] (R)
- BISI 14796 (A. V. Serebryakov, et al.)  
Forces on the rolls when reeling tubes after drawing on a floating mandrel.  
[Izv. VUZ Chern. Met., 1976, (6), 89—93] (R)
- BISI 14884 (Yu. L. Semenenko)  
Determining the pass groove and curved generatrix mandrel contours for CTR mills.  
[Stal', 1976, (7), 634—637] (R)
- BISI 14670 (M. Velkoborsky, et al.)  
Results of full-scale verification of the eight stand finishing block for wire rolling (ZDAS) under conditions of the continuous wire rolling mill at NHKG.  
[Hutnicke Listy, 1976, (4), 265—270] (C)
- BISI 14779 (Yu. I. Kokovikhin, et al.)  
Flow production of cable wire with mechanical removal of scale.  
[Stal', 1976, (6), 546—548] (R)
- BISI 14652 (G. Ya. Gun, et al.)  
Mathematical modelling of axisymmetrical steady-state processes of metal by pressure. (Communication 1).  
[Izvest VUZ Chern. Met., 1976, (5), 88—91] (R)
- BISI 14656 (A. F. Astashov, and N. V. Eto gorova)  
Temperature field of dies in pressing billets from a steel melt.  
[Izvest VUZ Chern. Met., 1976, (5), 121—124] (R)
- BISI 14658 (I. N. Potapov)  
Velocity parameters of the process of piercing with guide crossbars and undriven discs.  
[Izv. VUZ Chern. Met., 1976, (5), 133—136] (R)
- BISI 14686 (V. Frcek)  
Optimization of longitudinal shearing of wide coils of thin steel sheets.  
[Strojirenska vyroba, 1975, (9), 643—647] (C)
- Steels and Alloys (Technical Application and Methods of Production), Cermets**
- BISI 14782 (S. P. Artemova, et al.)  
Investigation of fracture structures in KhN<sub>3</sub>M-BT Yu-VD alloy after working.  
[Stal', 1976, (6), 557—559] (R)
- BISI 14798 (O. A. Khomenko, et al.)  
The formation of elinvar properties in Fe-Mn alloys.  
[Izv. VUZ Chern. Met., 1976, (6), 99—101] (R)
- BISI 14336 (S. V. Chekhovskii, et al.)  
Constructional materials for a contacting unit used in sulphuric acid manufacture.  
[Khim Prom, 1974, (11), 845—846] (R)
- BISI 14604 (S. Darnfors, and L. Troselius)  
Optimum nickel content of nitrogen-alloyed austenitic steels.  
[Werkstoffe u. Korrosion, 1975, 26, (12), 924—929] (G)
- BISI 14701 (L. Meyer, et al.)  
Effect of low titanium contents on mechanical properties of wide hot strip made from weldable structural steel.  
[Thyssenforschung, 1970, 2, (3), 86—95] (G)
- BISI 14773 (G. A. Klemeshov, et al.)  
An investigation of the nature of gas bubbles in rail steel ingots.  
[Stal', 1976, (6), 510—513] (R)
- BISI 14781 (B. E. Natapov, et al.)  
Discussion of the structure and properties of R6M5 steel.  
[Stal', 1976, (6), 555—557] (R)
- BISI 14879 (L. R. Tager, et al.)  
Optimization of the process of refining high alloy high speed steels.  
[Stal', 1976, (7), 611—613] (R)
- BISI 13768 (M. Mayrhofer)  
Research into dissolution and segregation of AlN in Al-Killed steel.  
[BHM, 1975, 120, (7), 312—321] (G)
- BISI 14042 (L. Lorenz)  
The influence of rare earth metals on the properties of non-alloy steels.  
[VDI-Z., 1974, 177, (21), 977—984] (G)
- BISI 14638 (V. N. Vydrin, et al.)  
Influence of working pressure in planishing by rolling-drawing on the structure and properties of low carbon steel.  
[Stal', 1976, (5), 452—454] (R)
- BISI 14650 (Yu. T. Dobritsa, et al.)  
Some questions of the formation of the structure of a rimming steel ingot.  
[Izvest, VUZ Chern. Met., 1976, (5), 60—63] (R)
- BISI 14803 (A. Ya. Khrapov, et al.)  
Assessment of the properties of graphitized steels

at raised temperatures.

[Izv. VUZ Chern. Met., 1976, (6), 130—132]  
(R)

### Casting and Cast Metals

BISI 14697 (Gy. Pöhm)

The forgeability of continuously cast billet steel.  
[Bany. es Koh. Lapok (kohaszat), 1976, 109, (3),  
104—108] (H)

BISI 14772 (P. N. Tkachev)

Formation characteristics of a large continuous  
sheet-*ingot* cast under slag.  
[Stal', 1976, (6), 509—510] (R)

BISI 14837 (F. Hofer and W. Manthey)

The MH high-temperature tundish.  
[Metals Soc.—IRSID Continuous Casting Conf.,  
Biarritz. 30 May—2 June 1976.] (G)

BISI 14190 (I. Chira, and G. Costea)

Wear resistant vanadium irons for cement mill-  
crusher balls and shieldings.  
[Metalurgia, 1975, (2), 53—56] (Ru)

BISI 14753 (U. Klein.)

Malleable cast iron, a material for highly stress-  
structural parts.  
[ZGV.-Nachrichten, 1958, 2, (5), 3rd revised  
edition 1969] (G)

BISI 14802 (B. F. Sul'dina, et al.)

Properties of components made from high-  
strength cast iron and reclaimed by contact  
electric cladding.  
[Izv. VUZ Chern. Met., 1976, (6), 127—129]  
(R)

BISI 14699 (Gy. Nandori, and J. Dul.)

Study of the tailing-off period of nodular cast  
irons based on the temperature-dislocation  
curves measured during solidification.  
[Bany. es Koh. Lapok (Ontode) 1976, 27, (3),  
45—55] (H)

BISI 14800 (I. N. Slobodinskii, et al)

Prediction of the wear resistance of chromium  
cast iron as a function of composition, structure  
[Izv. VUZ Chern. Met., 1976, (6), 112—114]  
(R)

BISI 14801 (M. V. Mozharov, et al)

Influence of antimony, bismuth, tin, and lead  
on the microstructure and mechanical proper-  
ties of high strength, spheroidal graphite cast  
iron.  
[Izv. VUZ Chern. Met., 1976, (6), 119—122] (R)

BISI 14817 (A. Kostelka)

Tests of synthetic nodular cast ironmaking  
using  $8\text{ Ce}$  at JMA hodonin.  
[Slevarenstvi, 1976, (5), 183—185] (C)

BISI 14855 (Verein Deutscher Giessereifachleute)

Welding of malleable cast iron.  
[Konstruieren+Giessen Offprint, No. 9 Publi-  
shed by the Verein Deutscher Giessereifachleute]  
(G)

### Heat Treatment

BISI 14804 (A. F. Krechman, et al)

Effects of yttrium on the annealing of mal-  
leable cast iron.  
[Izv. VUZ Chern. Met., 1976, (6), 133—136]

(R)

### Heating, Heating Furnaces and Electric Heating

BISI 14774 (V. M. Antipov, et al)

Quality of steel melted in a plasma arc furnace  
with a ceramic crucible.  
[Stal', 1976, (6), 517—520] (R)

BISI 14784 (S. I. Arkhireeva, and N. A. Kudryava-

ya) Ejection of gases in a twin-bath furnace.  
[Stal', 1976, (6), 567—568] (R)

### Fuel, Combustion and Refractories

BISI 14818 (S. Cernoch)

Factors determining effects of fuel substitution  
upon the operation of industrial furnaces.  
[Strojirenstvi, 1976, (3), 131—137] (C)

BISI 14819 (B. Splichal)

The system of coke manufacture—cast iron  
melting in cupola furnaces—II.  
[Hutn. Listy, 1976, (3), 155—163] (C)

BISI 14852 (A. D. Mamrosov, et al.)

Thermocouple design for temperature measur-  
ement in coke oven batteries.  
[Koks I Khimiya, 1976, (5), 19—21] (R)

BISI 14727 (P. Herbrich, and A. Starzacher)

The carbon oxidation rate in magnesite-type  
converter bricks in relation of the gas permea-  
bility and pore size distribution.  
[Radex Rundsch, 1975, (1), 325—335] (G)

### Welding and Joining

BISI 14678 (M. Hauner, and J. Halaburda)

Welding structures of the Al reactor in auste-  
nitic stainless steel.  
[Zyranie, 1976, (3), 90—93] (C)

BISI 14713 (M. P. Bocquet)

Metallurgical considerations in electron-beam  
welding to thick austenitic stainless steel plates.  
[Rev.Soudure, 1974, 30, (1), 28—37] (F)

BISI 14833 (G. Kohler, and G. Noack)

High-frequency welding of plastic-coated steel  
sheet.  
[Neue Hutte 1975, 20, (10), 622—624] (G)

BISI 14888 (G. P. Sakhatskii, et al)

Technology and machine for welding cable  
wire for cold drawing.  
[Stal', 1976, (7), 644—646] (R)

BISI 14821 (K. Jasiok, and J. Horáček)

Problems with electric separators in sinter  
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[Hutnicke listy, 1976, (4), 242—247] (C)

### Ores and Minerals Handing and Beneficiation

BISI 14769 (A. V. petrov, et al.)

Intensification of pellet-drying and firing  
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[Stal', 1976, (6), 491—494] (R)

BISI 14828 (P. Mihalka, et al.)

Modification of magnetic susceptibility during  
magnesite calcining.  
[Rudy, 1975, (9), 286—291] (C)

BISI 14874 (V. A. Yakovlev, et al.)

Combating metal losses at sintering plates.  
[Stal', 1976, (7), 583—585] (R)

BISI 14897 (G. G. Efimenko, et al.)

Influence of size grading of different forms of

fuel on sinter strength.

[Izv. VUZ Chern. Met., 1976, (7), 23—27]  
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### Ironmaking and Ferro-Alloys

BISI 14770 (Zh. E. Sleptsov, et al.)

Mineralogical composition and certain properties of final blast-furnace slags at the West-Siberian works.

[Stal', 1976, (6), 494—498](R)

BISI 14789 (V. G. Pyzhov.)

Factors influencing the carbon content of foundry pig iron. (Communication 1).

[Izv. VUZ Chern. Met., 1976, (6), 24—27](R)

BISI 14791 (A. L. Klein, et al.)

Variation in technological indices of steel melting in 250 tonne converters as a function of the phosphorus content in the hot metal.

[Izv. VUZ Chern. Met., 1976, (6), 53—56](R)

BISI 14807 (O. S. Ereskovskii, and N. M. Zatulovskii)

Optimal control of the hot-blast stove plant of a blast furnace.

[Izv. VUZ Chern. Met., 1976, (6), 156—160](R)

BISI 14892 (N. V. Bushueva, et al.)

Determination of the design and service characteristics of oil filters for cleaning blast furnace blast.

[Stal', 1976, (7), 668—671](R)

BISI 14898 (V. I. Kotov, et al.)

Sulphur absorption by components of iron-ore materials in the blast-furnace stack.

[Izv. VUZ Chern. Met., 1976, (7), 33—35](R)

BISI 14880 (Ya. I. Ostrovskii, et al.)

Gas flow in the bath of a closed electric furnace during the melting of carbon ferrochrome.

[Stal', 1976, (7), 618—620](R)

BISI 14820 (H. Beer.)

IBM 370 computer applied in control system of a blast furnace plant.

[Hutn. Listy, 1976, (4), 237—241](C)

### Steelmaking

BISI 14830 (M. A. Qayyum.)

Iron ore reduction with methane.

[Metallurgiya (Sisak, Yugoslavia) 1971, 10, (3—4) 3—12](Yu)

BISI 14743 (W. Krieger, et al.)

Investigations on nitrogen in the LD process.

[Berg. U. Hüttenmann-Monatsh. 1976, 121, (5), 165—172](G)

BISI 14751 (M. Osztatni)

Converter steel production in the Soviet Union.

[Bany. Kohasz. Lopok (Kohaszat), 1976, 109, (4), 164—171](H)

BISI 14808 (A. F. Sakun, et al.)

Assessment unit for the state of an open hearth furnace heat and selection of control actions.

[Izv. VUZ Chern. Met., 1976, (6), 164—168](R)

BISI 14822 (J. Petros, and B. Borsky)

The effect of positioning the refining oxygen lance on the progress of metallurgical processes

with special attention to tandem furnaces.

[Hutn. listy, 1976, (4), 248—254](C)

BISI 14878 (I. P. Gerasimenko, et al.)

Experience in the use of a suspended roof in the Wotk space of an open hearth furnace.

[Stal', 1976, (7), 609—610](R)

BISI 14890 (V. A. Minenko, and E. L. Perlova)

Reserves of growth of labour productivity in steelmaking production.

[Stal', 1976, (7), 658—661](R)

BISI 14900 (S. V. Kominov, et al.)

Interrelation of the converter bath parameters at the end of the blow

[Izv. VUZ Chern. Met., 1976, (7), 45—50](R)

### Extraction and Refining

BISI 14815 (M. Kepka, et al.)

The Efficiency of vacuum degassing of steel in the ladle and of argon blowing into the bath.

[Hutn. Listy, 1976, (5), 316—322](C)

BISI 14771 (V. A. Kudrin, et al.)

Evaluation of the oxidizing capacity of slag.

[Stal', 1976, (6), 504—508](R)

BISI 14788 (V. K. Novikov, et al.)

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[Izv. VUZ Chern. Met., 1976, (6), 18—20](R)

BISI 14816 (J. Cizner, and R. Krejci)

Deoxidation of low alloy manganese steels with alloys.

[Slevarenstvi, 1976, (5), 177—180](C)

BISI 14894 (S. I. Filippov, et al.)

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