

資料室だより

BISITS Translation 紹介

— No 13 —

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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。

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(List Nos. 526~530)

Mineral Sources, Ores, Mining & Treatment

- BISI 7821 (Z. Puncochar)
Blast furnace operation with homogenized burden in vitkovice steel works.
[Techn. Zpravy, 1968, 3, 58-69] (Gz)
- BISI 8519 (V. A. Martynenko)
Influence of magnetic processing of water on the agglomeration of iron concentrates.
[Gorn. Zh., 1969, 145, (12), 50-52] (R)
- BISI 7955 (J. Hons.)
Natural and artificial ageing of rails.
[Hutnik, 1969, 19, (8), 322-325] (Cz)
- BISI 7846 (G. Huyet, et al.)
Effect of some grinding conditions on grinding charges and lining wear.
[Rev. Ind. Min. 1969, 51, March, 220-248] (F)
- BISI 8219 (M. Conti, et al.)
The influence of carbon content in an iron ore type-mix on the mechanical and chemical properties of the sinter produced.
[Met. Ital., 1969, 61, (1), 3-7] (I)
- BISI 7638 (Z. Podskalsky)
Gara djebilet.
[Rudy, 1968, 16, (9), 309-315] (Cz)
- BISI 8133 (M. Boucraut, et al.)
Pelletization of iron ore.
[C. D. S. Circ. 1969, 26, (7/8), 1709] (F)
- BISI 7593 (N. L. Gol'dshtein & N. S. Khromchenko)
Reduction of iron ore burden materials with carbon monoxide with additions of hydrogen.
[Izv. VUZ Chern. Met., 1967, (8), 20-27] (R)
- BISI 7822 (J. Hancl)
An analysis of the scope for increased productivity in sinter preparation.

- [Hutnik, 1969, 19, (7), 243-247] (Cz)
- BISI 8075 (J. Hancl and R. Scholz)
Notes on the optimal method of processing return sinter.
[Hutn. Listy, 1969, 24, (8), 553-557] (Cz)
- BISI 8713 (P. Schmidt)
Problems in fine screening.
[Aufbereitungstechnik, 1967, (6) 322-342] (G)
- Fuel Preparation, Properties and Uses**
- BISI 8426 (C. Meltzheim)
Study of graphite building in coke plants.
[C. D. S. Circ., 1969, (11), 2451-2460] (F)
- Refractory Materials**
- BISI 8199 (T. Hartmann)
Experience with the lining of steel ladles with ramming mixes steelworks.
[Stahl Eisen, 1969, 89, Oct. 2, 1100-2] (G)
- Blast Furnace Practice & Production of Pig Iron & Ferro Alloy**
- BISI 8522 (E. Mazanek)
Variation of pig iron temperature with blast furnace operating variables.
[Hutnik, 1969, 36, (10), 511] (Cz)
- BISI 7045 (A. Hoffmann)
Effects of oxygen, carbon, silicon and aluminium on the supercooling and microstructure of high-purity iron.
[Arch. Eisenh., 1967, 38, Oct., 785-792] (G)
- BISI 7758 (J. Cochery)
Heat transfer in the blast furnace.
[Rev. Met., 1967, (11), 945-960] (F)
- BISI 8428 (W. Wenzel)
The production of iron by means of nuclear energy.
[Techn. Mod., 1969, 61, (11), 431-435] (F)
- BISI 7930 (J. Wanot)

The effect of preformed coke on the permeability of the blast furnace charge column.
[Hutnik 1969, 36, (5), 214-221] (Pol.)

Production of Steel

BISI 7964 (O. Kastanek)

The influence of titanium on solidification of high-speed steels containing 9% W.
[Sbornik V. S. T. Kosiciach, 1968, (2), 101-117] (Cz)

BISI 8305 (R. Torsell, M. Olette)

The effect of clustering on the elimination of aluminium oxide inclusions introduced through the aluminium deoxidation of liquid steel.
[Rev. Met., 1969, 66, (12), 813-822] (F)

BISI 8373 (H. G. Baumann)

New developments in the continuous casting/direct rolling of steel.

[Draht welt, 1969, 55, Oct, 607-613] (G)

BISI 8417 (A. Chasin, et al.)

Crystallization in electro-slag and vacuum-arc remelting.
[Ereiberger Forschungsh., 1969, (B. 151), 79-86] (G)

BISI 8489 (S. S. Volkov et al.)

The use of manganiferous limestones in oxygen blowing.
[Izv. VUZ. Chern. Met. 1965, (10), 52-58] (R)

BISI 8304 (F. Oeters, et al.)

The use of gaseous hydrocarbons, particularly natural gas, for desulphurisation of hot metal outside the blast furnace.
[Hoesch Berichte. 1969, 4, (3), 71-74.] (G)

BISI 8314 (C.-H. Rosendahl)

The alloy supply situations for the steel industry. III-The uses of alloy metals.
[Jernkon, Ann.. 1968, 152, (8), 387-419] (Sw)

BISI 8398 (D. Cosma)

Investigations on the dissolution of nitrogen in melts of stainless steel with chromium, manganese, nickel and nitrogen as alloying elements.
[Arch. Eisenh., 1970, Fed., 195-199] (G)

BISI 8461 (W. Burgmann & C. Fornerod)

Rate of solidification and depth of continuous casting.
[Erznetall, 1970, 23, 51-58] (G)

BISI 7651 (F. Fratini, et al.)

The influence of oxygen on the sub-surface blowholes in mechanically capped rimming steels
[Met. Ital., 1969, 61 Jan., 17-23] (I)

BISI 8357 (J. Petros and Z. Buzek)

On the thermodynamics of deoxidation with silicomanganese.
[Sbornik, V. S. B. Ostrace, 1967, 13, (2/3) 195-204] (Cz)

BISI 8407 (J. Smetana)

Experience with run-out slag pockets in open-hearth furnaces.
[Hutn. Listy, 1969, 24, (10), 696-698] (Cz)

Foundry Bractice

BISI 7731 (H. Pacyaa)

Has the jobbing foundry a future?
[Giesserei, 1968, 55, 6th June, 323-331] (G)

BISI 8432 (J. Grossmann)

Pressure build-up and plunger speed in cold chamber pressure die casting machines with horizontal shot end.
[Jesserei, 1970, 57, (1), 12-17] (G)

BISI 7970 (V. Vondrak)

The effect of separation of graphite on pre-shrinkage expansion of cast iron.
[Slevarenstvi, 1969, 17, (9), 382-389] (Cz)

Heat-Treatment, Heat-Treatment Furnace, Reheating Furnace & Soaking Pits

BISI 8526 (A. Cheviet)

Relaxation heat treatments of residual stresses due to welding and their metallurgical effects (Bibliographic review)
[C. D. S. Circ., 1970, Jan., 183-222] (F)

BISI 8528 (H. Buhler & K. Rittmann)

Contribution to the thermomechanical treatment in steel wire drawing.
[Stahl Eisen, 1969, 89, (24), 1353-1356] (G)

BISI 7955 (J. Hons.)

Natural and artificial ageing of rails
[Hutnik, 1969, 19, (8), 322-325] (Cz)

BISI 7984 (K. Obrouchka & R. Kremer)

Heat losses due to cooling water in continuous pusher furnaces.
[Sbornik V. S. B. Ostrav Rada Hutnicks, 1968 14, (4), 127-140] (Cz)

BISI 7791 (H. Brand K. Wiebking)

Effect of variation of nickel and molybdenum content within specification limits on heat treatability of high chromium steels.
[DEW Techn. Ber., 1969, 2, (2), 300-304] (G)

Forging, Pressing, Drawing, Extrusion, Swaging & Stamping

BISI 8434 (K. Schwarz)

Lubricants for cold extrusion.
[Draht.-Welt, 1969, 55, (11), 691-2.] (G)

BISI 8435 (F. Keilholz)

Investigations on one-piece hammer framer frames.
[Werkstattstechnik, 1963, 53, (8), 421-8] (G)

BISI 8103 (M. Slesar, et al.)

Non-uniformity of the plastic deformation on static and dynamic load of mild steels.
[Kovove Mat., 1969, 7, (3), 254-276] (Cz)

BISI 7939 (O. Pawelski)

Calculation of the coefficient of heat transition for hotrolling and forging.
[Arch. Eisenh., 1969, 40, Oct., 821-827] (G)

Rolling & Rolling Practices

BISI 8051 (G. Hartmann)

A new light-dar and wire rod rolling mill for high quality steel.
[Stahl Eisen, 1969, 89, Aug. 21, 931-948] (G)

BISI 8344 (V. N. Vydrin & V. I. Krainov)

Normal and tangential stresses during rolling with a single driving roll.
[Izv. VUZ Chern. Met., 1969, (4), 77-70] (R)

BISI 8366 (O. Pawelski & H. Schroeder)

Effect of roll flattening on the configuration of roll gap and pressure distribution during cold

rolling.

- [Arch. Eisenh., 1969, 40, Nov., 867-873] (G)
 BISI 8401 (P. A. Portevin and P. Blain)
 On the measurement of the quantities of heat exchanged during contact between a rolling mill roll and rolled plate. Experimental method-results. Comparison with theoretical results.
 [C. I. T. 1967, (10) 2269-2292] (F)
 BISI 8521 (N. E. Skorokhodov & L. S. Belevskii)
 New design of rolls for sheet rolling.
 [Izv. VUZ Chern. Met., 1969, (12), 123-125] (R)
 BISI 8527 (P. Funke & W. Mikulla)
 Effects of the surface of the hot-rolled strip as well as of the pickling process and cold rolling on the surface finish of the cold-rolled strip.
 [Stahl Eisen, 1969, 89, (14), 1333-1338] (G)
 BISI 6553 (B. von Kortzfleisch)
 Effect of temperature on bite and tension during hot rolling.
 [Stahl Eisen, 1967, 87, May 18, 588-597] (G)
 BISI 8381 (O. Modder)
 Slab cooling devices.
 [Kleipzig Fachber, 1969, 77, Aug. 535-537] (G)
 BISI 8553 (P. Valentin)
 Automation of rolling mills.
 [International Conference on Iron and Steel, 1970, 'Automation in Iron and Steel Works'] (F)
 BISI 8554 (L. Weber)
 Operating experience of the maintenance service with a computerized universal slabbing mill.
 [International Conference on Iron and Steel, 1970, 'Automation in iron and steel works'] (G)

Machinery, Machining Machinability & Services for Iron and Steel Plant

- BISI 8520 (Bey, et al.)
 Collection and utilization of economic and technical data necessary to evaluate the efficiency of plant transportation and handling to recommend cost reduction schemes and to promote accurate cost accounting.
 [C. D. S. Circ., 1969, (11), 2519-2549] (F)

Plating, Protective Coatings, Cleaning Pickling

- BISI 8302 (W. Dietrich, et al.)
 Technical solutions to problems in the vapour deposition and heat treatment of steel under high vacuum.
 [Mitteilungen DFBO, 1968, 20, Nov. 31, 232-238] (G)
 BISI 8021 (M. Olette, et al.)
 Prospects for the protection of steel by metalization under vacuum.
 [Corr. Trait. pro. Fin., 1969, 17, Apr./May, 123-130] (F)
 BISI 8322 (K. Sautner)
 The surface treatment of steel in relation to active and inactive coatings.
 [Bander dleche, 1969, 10, (12), 720-724] (G)
 BISI 8539 (P. F. Pascoe)
 A cationic polyelectrolyte compound for the production of permanently stabilised predispersed pigments in solvents and plasticizers.

[Farbe und Lack., 1968, 74 (3), 245-251] (G)

Welding

- BISI 7861 (Z. Hamza, et al)
 Production of helically welded tubes of CSN 11 423 semi-killed steel.
 [Zvaranie, 1968, 18, (2), 40-43] (Cz)

Properties and Tests

- BISI 7641 (O. Bohus)
 Steel for orientated transformer strip and the quality required.
 (Hutn. Listy, 1969, 24, (3), 161-166] (Cz)
 BISI 8361 (G. Salmoni)
 Properties and weldability of cor-ten B steel.
 [Costr. Met, 1970, (1), 1-6] (I)
 BISI 8376 (E. Schmidtman & M. Chitil)
 Investigations on the reversible temper brittleness.
 [Arch Eisenh, 1970, 41, (2), 165-171] (G)
 BISI 7978 (A. Constantinescu et al)
 New creep coefficients of high-temperature steel.
 [Neue Hutte, 1969, 14, July, 423] (G)
 BISI 8411 (J. Lefevre)
 Measurement of the work hardening coefficient of austenitic stainless steels. application to the deep drawing of sheet and cold forming.
 [C. D. S. Circ., 1970, (3), 805-813] (F)
 BISI 6323 (E. Baerlecken, et al.)
 Study of the transformation behaviour, the notch impact strength and the tendency to intercrystalline corrosion of iron-chromium alloys with chromium contents of up to 30%.
 [Stahl Eisen, 1961, 81, (12), 768-778] (G)
 BISI 8377 (E. Martin, et al)
 Investigations of the brittle fracture tendency of unalloyed low carbon structural steels taking into account their mechanical damping behaviour in the KHz-range.
 [Arch. Eisenh., 1970, 41, Fed., 185-193] (G)
 BISI 8102 (J. Koutsky, et al)
 Contribution to the study of high temperature strength properties of low alloy CrMoWV steels. II-The effect of niobium, cerium, zirconium and boron on the high temperature strength steel of type CSN 415335
 [Kovove Mat., 1969, 7, (3), 219-241] (Cz)
 BISI 8217 (S. E. Magnusson and O. Pettersson)
 Qualified fire-protection design of steel structures.
 [Sartyck Bryggmastarten, 1969, (9), 23-31] (Sw)

Clad Steel, Powder Metallurgy & Hardfacing

- BISI 8433 (P. Galmiche, et al.)
 Production of refractory alloys as powders, fibres and sintered billets by thermochemical means.
 [6th Plansee Seminar on Refractory Metals, 24-28 June 1968] (F)
 BISI 7612 (C. Liesner and G. Wassermann)
 Structure and mechanical properties of powder-metallurgical iron-copper alloys.
 [Metall, 1969, 23, May, 414-417] (G)

Corrosion

- BISI 7524 (R. Lebet & A. Piotrowski)
 Electrochemical parameters of stainless and acid

resistant.

[Zeszy Nauk, Akad. Gorn. -Hutn., 1968, (20)
96-98] (Po)

BISI 8187 (M. Guyotte)

Vapour-phase inhibitors.

[Corros. Trait. Prot. Fin 1969, 17, Aug/Sept
295-300] (F)

BISI 8350 (K. Barton and V. Marek)

Influence of the forming rust on the progress
of atmospheric corrosion of steel.

[Werkstoffe Korros., 1970, 21, (3), 182-184] (G)

BISI 7606 (A. Bauml)

Transcrystalline stress corrosion cracking of au-
stenitic manganese steels in corrodents contain-
ing chloride ions.

[Werks Korros., 1969, 20, May, 389-396] (G)

Metallography

BISI 8182 (H. J. Bunge)

Texture description by means of three-dimen-
sional pole figures.

[Proceedings of the International Conference on
Textures, Tech. University Clausthal-Zellerfeld,
Springer Verlag, Berlin, 1969, 24-35] (G)

BISI 8137 (J. Lefevre, et al.)

Segregation and homogenisation in austenitic
stainless steels.

[Rev. Met. Mem. Sci., 1969, 66, (7/8), 517-
529] (F)

Analysis

BISI 7599 (S. Bergh and G. G Grunbaum)

Oxygen sampling with an immersion sampler
tube.

[Jernkon, Ann., 1967, 151, (8), 527-541] (Sw)

BISI 7733 (G. Sommerkorn)

Determination of the activity of cobalt 60-in
pig iron by measuring the γ -radiation.

[Arch. Eisenh., 1968, 39, Dec., 959-962] (G)

BISI 8364 (P. L. Bertolaccini)

Requirements of an atomic absorption spectro-
photometer for metallurgical analysis.

[Met. Ital., 1969, 61, (8), 396-403] (I)

Miscellaneous

BISI 8431 (E. Lehrer)

The iron-hydrogen-ammonia equilibrium.

[Z. Electrochem, 1930, 36, (6), 383-392] (G)

Henry Brucher Metallurgical Translations 紹介

Henry Brucher Metallurgical Translations は英語以外の冶金関係の学術技術論文を英訳出版したもので、1926年 Henry Brucher 氏によつて始められました。原典は英語を使用していない、鉄鋼を製造しているあらゆる国から100点以上の刊行物が収集され、それらの中から優秀な論文が選択されて出版されています。

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Mineral Sources, Ores, Mining & Treatment

- HB 8136 (G. -W. Lask and R. Jauch)
Production and quality of sinter as affected by (the amount of) return fines.
[Stahl und Eisen, vol. 90, 1970, No. 2. pp. 80-85] (G)

Refractory Materials

- HB 7614 (W. Gans et al.)
On the erosion and infiltration of (tar-bonded or tar-impregnated) magnesite brick.
[Archiv f. d. Eisenhüttenwesen, vol. 39, 1968, #9, pp. 669-672] (G)

Blast Furnace Practice & Production of Pig Iron & Ferro Alloy

- HB 7977 (A. A. Gimmel 'farb et al.)
Investigation of reduction processes when operating a blast furnace on a burden containing pellets.
[Metallurg i gornorudn promyshlennost', vol. 10, 1969, #3, pp. 5-8] (R)

- HB 8082 (V. I. Loginov et al.)
Disintegration of pellets on reduction.
[Metallurg. i gornorudn. promyshlennost', vol. 10, 1969, #4, pp. 9-11] (R)

Production of steel

- HB 8126 (B. V. Nikiforov et al.)
Economies achieved by the use of a new lance design for the basic oxygen furnace.
[Metallurg. i gorn. promyshlennost, vol. 10, 1969, pp. 87-88] (R)

- HB 8098 (E. A. Viktorov.)
Effect of oxide films in the infiltration of titanium carbide with liquid steel.
[Poroshkovaya metallurgiya, vol. 9, 1969, #11 (83), pp. 102-105] (R)

- HB 7978 (G. Gommellini et al.)
Critical considerations on the deoxidation equilibria of steel with aluminum and experience of deoxidation in the electric furnace-influence on the non-metallic inclusion content.
[La metallurgia italiana, vol. 61, 1969, #7, pp. 295 to 304 and 309] (I)

- HB 8034 (N. K. Stepanov et al.)
Rate of crystallization and formation of subcutaneous blowholes in a continuously cast rimming-steel billet.
[Izvest. VUZ Chern. Met., vol. 12, 1969, #9,

pp. 42-46] (R)

- HB 8051 (S. M. Gorlov et al.)
Nozzles for the continuous casting of tube steel under slag.
(Ogneupory, vol. 34, 1969, #10, pp. 9-11] (R)

- HB 8086 (V. G. Fedorovich.)
New trends in the design of oxygen lances.
[Metallurg. i gornorudnaya promyshlennost', vol. 10, 1969, No. 4, pp. 14-16] (R)

- HB 8052 (A. K. Karklit et al.)
Flow-control nozzles for the continuous casting of steel deoxidized with aluminum.
[Ogneupory, vol. 34, 1969, #8, pp. 34-37] (R)

- HB 7933-I (R. N. Das et al.)
Failure of the material of steel plant ingot molds of flaky-graphite cast iron in service.
[Stahl und Eisen, vol. 89, 1969, #22, pp. 1202-1211] (G)

- HB 7766 (V. P. Perminov et al.)
Experience in the continuous casting of heavy-section blooms of alloy steel. (Translated from Problemy Stal' Slitka Problems of steel ingots). Trudy III Konf. Po Slitku.
[Proceedings of the Third Ingot Conference]. Metallurgizdat, Moscow, 1969, pp. 397-400) (R)

- HB 8076 (N. K. Stepanov et al.)
Effect of thermal conductivity of mold wall material on the solidification of a continuously cast billet or slab.
[Izvest. vuz-Chern. Met., vol. 12, 1969, No. 11, pp. 50-54] (R)

- HB 7856 (T. L. Kutsenko and V. T. Sladkoshteev.)
Investigation into the chemical and structural heterogeneity of (steel) slabs cast on a curved-mold machine.
[Problemy stal'nogo slitka, 1969, pp. 353-355] (R)

- HB 7830 (V. I. Bapshizmanskii)
Process of coalescence of nonmetallic inclusions in liquid steel.
[Izvest. Vuz. -Chern. Met., vol. 12, 1969, No. 3, pp. 42-45] (R)

- HB 7747 (Theodor Kootz.)
Effect of teeming and solidification of rimming steel upon surface condition and cleanness of slab ingots.
[Thyssen-forschung, vol. 1, 1969, #1, pp. 3-10

- 16 figs] (G)
 HB 7816 (V. Smid and M. Onderka)
 Low-carbon, non-aging aluminum-stabilized steel.
 [Hutnicke listy, vol. 24, 1969, No. 4, pp. 241-7] (Cz)
- HB 8024 (P. Konig et al.)
 Quality control of lime for steelmaking.
 [Stahl und Eisen, vol. 89, 1969, No. 22, pp. 1231-35] (G)
- HB 8133 (E. Ametrano et al.)
 Influence of blowing practice in the basic oxygen content of the steel.
 [La metallurgia italiana, vol. 61, 1969, No. 11, pp. 530-539] (I)
- HB 7933-II (R. N. Das et al.)
 Failure of the material of steel plant ingot molds of flaky-graphite cast iron.
 [Stahl und Eisen, vol. 89, 1969, No. 26, pp. 1480-1486] (G)
- HB 8137 (P. Konig et al.)
 Experience with an electric arc remelting furnace (for laboratory use)
 [Archiv eisenhüttenwesen, vol. 40, 1969, No. 12, pp. 993-4] (G)
- HB 8102 (H. Bachtold and W. Waldvogel.)
 Experiences in the flushing of heats with argon in a steel foundry ladle.
 [Die giesserei, vol. 56, 1969, No. 11, pp. 313-318] (G)
- HB 7847 (V. T. Sladkoshteev et al.)
 Continuous casting of steel on a curved-mold machine. (Problemy stal'nogo slika (Problems of steel ingots). Trudy III Kong. po slitku. [Proceedings of the third conference on ingots. Metallurgizdat, mscow, 1969, pp. 387-399] (R)
- HB 8128 (A. Kh. Kharbash.)
 Stopper ends and nozzles for continuous casting tundishes with automatic control of the pouring stream.
 [Ogneupory, vol. 35, 1970, No. pp. 1 32-35] (R)
- Foundry Practice**
 HB 7891 (F. Hoffmann)
 Compressibility as a new principle for assessing the moisture content of prepared foundry molding sands and their performance in molding.
 [Giesserei, vol. 50, 1969, No. 2, pp. 25-33] (G)
- Vacuum Metallurgy**
 HB 8078 (W. Coupette)
 Continuous production of vacuum steel from pig iron.
 [Fachberichte, vol. 77, 1969, No. 10, pp. 617-618]
- HB 8083 (V. M. Amonenko et al.)
 Properties of nickel-copper and nickel-copper-nickel bimetal made by rolling in a vacuum.
 [Tsvetnye metally, vol. 41, 1968, No. 9, pp. 86-89] (R)
- Forging, Pressing Drawing, Extrusion, Swaging & Stamping**
 HB 8081 (M. Wolf.)
 Experiences in the manufacture of high-alloy (seamless) tubes by extrusion.
 [Neue hutte, vol. 14, 1969, #11, pp. 674-679] (G)
- Rolling & Rolling Practices**
 HB 8070 (A. P. Grudev et al.)
 Highly effective industrial lubricants for cold rolling (metals)
 [Metallurg. i gornorudn. promyshlennost' vol. 10, 1969, #4, pp. 19-22] (R)
- HB 8026 (P. Holler and H. Smit)
 Ultrasonic inspection of cold-rolled strip with lamb waves using the echo method.
 [Materialprüfung, vol. 1969, #10, pp. 329-335] (G)
- HB 8134 (I. Crivelli visconti)
 Use of direct rolling in fiber metallurgy.
 [Metallurgia italiana, vol. 61, 1969, No. 11, pp. 550-555] (I)
- HB 8147 (H. Buhler et al.)
 Investigations of the processes of elimination of work hardening in the hot working of austenitic steel.
 [Stahl und Eisen, vol. 90, 1970, No. 1, pp. 21-28] (G)
- HB 8132 (A. M. Kodratyuk and V. G. Osipov)
 Investigation of the nature of defects in plate rolled from continuously cast slabs and ways of avoiding them. (Problemy stal'nogo slika (Problems of steel ingots). Trudy III Kong. po Sliktu (Proceedings of the Third Ingot conference)
- Plating, Protective Coatings, Cleaning Pickling**
 HB 8029 (V. I. Pokhmurskii and G. V. Karpenko)
 Criteria for the strengthening of (steel) components on surface impregnation
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