

資料室だより

BISITS Translation 紹介

— No. 6 —

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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 Journal of The Iron and Steel Institute に掲載され、事前にどんな論文が出るかわかるようになります。

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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、複写は禁止されておりますので閲覧のみに限ります。

なお、"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

(List Nos. 491~495)

Mineral Sources, Ores, Mining & Treatment

BISI 6295 (H. Landgraf)

The radiation from the burning part of a sintering line as a control factor. [R. U. M., 1967, 110 Apr., 93-96] (F)

BISI 7033 (N. V. Puzankova and A. M. Dymov)
Phase analysis of sulphur compounds in iron ores and sinters. [Izv. VUZ Chern. Met., 1968, (3), 176-180] (R)

BISI 7092 (H. Baeumler, et al.)

Investigations on the sizing of run-of-mine ores in ore crushing and screening plants. [Stahl Eisen, 1968, 88, Aug. 22, 897-806] (G)

BISI 7528 (H. Lbwenkamp, et al.)

Effect of type of fuel and the fuel ratio on the throughput and quality of sinter. [Stahl Eisen, 1969, 89, Apr. 3, 337-342] (G)

Fuel Preparation, Properties and Uses

BISI 6252 (R. Agricola)

The effect of inert materials on the coking behaviour of a coking coal and on the quality of the coke produced from mixtures. [Brennstoff-Chemie, 1967, 48, (8), 240-252] (G)

BISI 6778 (H. A. W. de Vries and C. Bokhoven)

The macroscopic changes in the thermal treatment of hard coals. [Brennst.-Chem., 1968, 49, (70), 206-211] (G)

BISI 6779 (J. Kunc)

A new method for the rapid determination of cokability. [Brennst.-Chem., 1968, 49, (7), 211-217] (G)

BISI 7475 (H. Britz)

The importance of the wobbe index for thermal control systems. [Stahl Eisen, 1969, 89, Feb. 20, 185-191] (G)

BISI 7598 (H. Echterhoff and G. Nashan)

Investigations on improving the performance on the coke oven. [Brennstoff Chemie, 1968, 49, Dec., 364-368] (G)

BISI 7609 (C. Kröger)

The tar formation process and coke strength. [Brennstoff Chemie, 1968, 49, Dec., 359-364] (G)

Air Pollution & Smoke

BISI 7477 (H. Schütz)

Hints for design of exhaust hoods and pipe lines for de-dusting systems. [Blech, 1969, 16, May, 268-276] (G)

Refractory Materials

BISI 6248 (L. Lecrivain and R. Martin)

Interpretation of creep tests on refractory products. [Bull. Soc Française Ceram., 1967, 75, Apr.-June, 25-40] (F)

BISI 6361 (M. J. Schöndörffer)

Laboratory study of the behaviour of fire clay and mullite based refractories at high temperatures and under load. [C. D. S. Circ., 1965, (2), 477-503] (F)

Blast Furnace Practice & Production of Pig Iron & Ferro Alloy

BISI 6293 (G. Trömel, et al.)

Equilibria between iron melts and slags of the system FeOn-CaO-P₂O₅-MgO at 1600°C. [Arch. Eisenh., 1967, 38, Aug., 595-605] (G)

BISI 6986 (G. Rossi and A. Perin)

Treatment of oxides obtained from industrial by-products for the manufacture of powder and sponge iron. [Rev. Mét., 1967, 64, Dec., 1127-1143] (F)

BISI 6904 (P. Drapier)

Incidents in tuyeres of the blast furnaces at dunkirk. [C. D. S. Circ., 1968, (6), 1483-1495]

(F)

BISI 7228 (J. Sobotka)

Determining the blast temperature drop during passage from source to the combustion space of the blast-furnace. [Hutnik, 1968, 18, (5), 211-216] (Cz)

BISI 7380 (G. Spallanzani)

Reconstruction of the upper part of the stack of the No 2 furnace at Taranto. [Boll. Tecn. Finsider, 1968, (261), Nov., 753-765] (I)

BISI 7482 (Anon.)

Blast furnace No 4 becomes a new furnace. [Samen, 1969, Mar., 54-57] (Du)

BISI 7680 (H. von Schwarze)

The blowing-in, banking, and blowing-down of blast furnaces. [Stahl Eisen, 1925, 45, Apr. 23, 609-613] (G)

Production of Steel

BISI 7360 (Anon.)

New electro-metallurgical processes for the manufacture of iron and steel. [J. Four. Elect., 1968, Oct., 227-230] (F)

BISI 7373 (M. Wahlster.)

The possibilities of and limits to metallurgical reactions in steelmaking. [Berg-Hütten. Monatsh., 1968, 113, Nov., 465-478] (G)

BISI 7559 (A. Velcher)

Investigation of the consumption of graphite due to evaporation and atomization in the electric arc. [Rudodobiv Met., 1966, 21, (8), 6-9] (Bul)

BISI 6294 (J. Galey, et al.)

Blowing in of neutral gases by porous refractories in the crucible of induction furnaces. [J. Four. Elect., 1967, 72, Aug.-Sept., 197-205] (F)

BISI 7277 (G. I. Chernysh)

On the calculation of the optimum consumption of oxygen for the intensification of the combustion of a fuel in the open hearth flame. [Izv. VUZ Cher. Met., 1968, Aug., 153-156] (R)

BISI 7339 (W. Niccdemi)

The influence of nickel content on the decarburization of stainless steels using oxygen. [Met. Ital., 1968, 60, July, 620-626] (I)

BISI 7557 (W. Fiedler)

A novel method for the production of compound steel ingots, particularly those for the production of wear-resistant, seamless compound steel pipes for pneumatic and hydraulic transport of solids. [Freiberger Forschungsh., 1968, B137, 92-100] (G)

BISI 7340 (K. W. Lange, et al.)

Mass transfer between rising spherical bubbles and fluid metal melts. [Arch. Eisenh., 1969, 40, Feb., 99-107] (G)

BISI 7560 (A. Velcher)

Laws of rate of oxidation of the side surface of graphite electrodes for 10-tonne electrode furnaces. [Rudodobiv Met., 1969, 24, (4), 10-

14] (Bul)

BISI 7552 (E. Steinmetz and M. Roth)

Energy and exergy balance of the oxygen top-blown process. [Arch. Eisenh., 1969, 40, June, 471-474] (G)

BISI 7527 (W. Chvorinov)

The mechanism of solidification and its significance for the casting of steel ingots.

[Freiberger Forschungsh., 1968, (B137), 9-17] (G)

BISI 7235 (E. Janda)

Cold-rolled transformer sheet free from preferred orientation. [Hutn. Listy, 1968, 23, (11), 797-804] (Cz)

BISI 7501 (H. J. Eckstein and H. J. Spies)

Contribution to the problems of solidification in the water-cooled crystallizer.

[Freiberger Forschungsh., 1968, (B137), 101-114] (G)

BISI 7626 (L. W. Berens, et al.)

Contribution to improvement in the dissolution of lime during steelmaking.

[Stahl Eisen, 1969, 89, July 10, 772-776] (G)

BISI 7015 (S. Plankensteiner)

Possibilities of substituting nitrogen for nickel in corrosion-resistant austenitic Cr-Ni steels.

[Symposium on Stainless Steels (Prague), 1961, p.19] (G)

Foundry Practice

BISI 7065 (K. Lewandowski)

Comparing the life of grey iron and spheroidal graphite cast iron ingot moulds.

[Koh. Lapok, 1967, 100, Dec., 546-552] (Hun)

BISI 7066 (W. Sakwa)

Life of steelworks moulds.

[Giessereipraxis, 1967, (19), 361-364] (G)

BISI 6300 (F. L. Cavallante and C. L. Mariotto)

Influence of the physical properties of mould coatings for steel castings on their behaviour.

[Met. ABM, 1967, 23, Nov., 851-862] (Port)

BISI 7193 (G. Schwarz and Junghans)

Results of research on the production of profiled grey iron die castings.

[Giessereitechnik, 1959, 5, Feb., 35-46] (G)

BISI 7376 (W. Förster)

Permanent elongation stress of austenitic cast iron GGG-NiCr 20 2 (Ni-Resist D-2).

[Giesserei, 1969, 56, Mar. 13, 146-150] (G)

BISI 7479 (H. Oelmann and D. Unger)

Testing of blackings for lamellar graphite cast iron [Giesserei, 1969, 56, Feb., 27, 105-112] (G)

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

BISI 6723 (H. F. Strähuber)

Possible ways of improving the design of pusher-type furnaces. [Stahl Eisen, 1968, 88, June 27, 685-688] (G)

BISI 7233 (Z. Janda)

Cracked ammonia atmospheres and their use in the metallurgical industry.

[Hutnik, 1968, 18, (4), 182-186] (Cz)

BISI 7536 (F. Reinitzhuber, et al.)

Development of a mathematical model describing the heating of plates in a continuous heat treatment furnace. [Stahl Eisen, 1969, 89, May 29, 587-599] (G)

Forging Pressing Drawing, Extrusion, Swaging & Stamping

BISI 7556 (L. Roesch)

Some aspects of the influence of dispersed particles on the plasticity of iron. [Rev. M t. Men. Sci., 1969, 66, Jan., 29-45] (F)

Rolling & Rolling Practices

BISI 6991 (A. Randak, et al.)

Production and use of cold-rolled stainless wide strip 1-production. [B nder Bleche, 1963, 4, Feb., 61-69] (G)

BISI 7078 (E. Cerveny)

Higher yields through developments in rolling technology. [Uspora Kovu ve valcovnach, Ostrava, 1965, Book 2, 7-35] (Cz)

BISI 7144 (A. Svagr)

Combined rolling stand constructed at the engineering plant in zdar. [Hutn. Listy, 1968, 23, (8), 562-564] (Cz)

BISI 7146 (J. Jedlicka)

Spreading of steel in hot rolling. [Hutn. Listy, 1958, 23 (7), 485-488] (Cz)

BISI 7180 (P. Funke and E. F. Wend)

Scaling and pickling properties of hot-rolled strip depending on the cooling conditions in various hot rolling mills.

[Stahl Eisen, 1969, 89, (3), 101-114] (G)

BISI 7224 (J. Peter and A. Svoboda)

The future of thick steel strip production. [Hutnik. 1968, 18, (9), 432-436] (Cz)

BISI 7309 (E. Kiss)

Heating conditions during cold rolling. [B nder Bleche, 1969, 10 Mar., 161-165] (G)

BISI 7374 (J. Spyra)

Optimum stock dimensions in plate rolling. [Neue H tte, 1968, 13, June, 338-342] (G)

BISI 7504 (H. Regenhardt)

The medium section rolling mill of rochling iron and steel works GmbH volklingen. [Schloemann Report No W2/511] (G)

BISI 7505 (J. Lennackers)

The semi-continuous rolling mill for medium sized products of usinor usines de longwy, longwy, france. [Schloemann Report No W2/2116] (G)

BISI 7608 (J. Pachtem, et al.)

Operational results from a modern medium-sized rolling mill.

[Stahl Eisen, 1969, 89, June 12, 627-640] (G)

Machinery, Machining Machinability & Services for Iron and Steel Plant

BISI 6194 (L. de Loringhoven)

Girders for crane runways demands and classification of stresses. [Construction Met., 1967, 2, June, 9-23] (F)

BISI 7177 (W. K nig)

The influence of non metallic inclusions on the machinability of unalloyed structural steels. [Industrie Anzeiger, 1965, 87, (26), 61-68-1, (43), 131-136-11, (51), 165-170-111] (G)

BISI 7207 (S. Glezl)

Characteristic operational factors of porous bearings. [Strojirenstvi, 1968, 18, (2), 113-121] (Cz)

Welding

BISI 7105 (F.-J. Ganowski)

The theory and practice of seam welding. [Schweissen Schneiden, 1967, 19, Nov., 509-517] (G)

BISI 7108 (H. J. Meyer)

Effect of defects in sheet on the failure of weld seams when strained normal to the surface. [B nder Bleche, 1968, 9, Dec., 723-728] (G)

BISI 7282 (W. Glage)

: Contribution to the technology of spot welding of galvanized steel strip.

[B nder Bleche, 1969, 10, (2), 103-103] (G)

Plating, Protective Coatings, Cleaning Pickling.

BISI 7031 (R. Pache)

Utilisation of sheets pretreated by zinc coating in the construction of cabinets for electrical equipment. [Traitements Surface, 1967, 8, May, 29-37] (F)

BISI 7476 (O. Luling)

Crack formation in galvanising baths and their possible causes. [B nder bleche, 1969, 10, May, 300-301] (G)

BISI 7541 (J. Zimmermann)

Standardisation and description of cans and containers made of tinplate and aluminium. [Bl ch, 1969, 16, (4), 1-6-12] (G)

Properties and Tests

BISI 6921 (A. Masi and P. Ravizza)

The influence of tellurium of the properties of steels. [Met. Ital., 1967, 59, Oct., 823-828] (I)

BISI 7252 (M. Grumbach and G. Sanz)

1-Resilience tests, schnadt tests and impact tensile tests. [C. D. S. Circ., 1968, (9), 1997-2011] (F)

BISI 7268 (J. Groyecki and H. Majchrzak)

The effect of cold working and heat treatment on magnetic properties of dynamo sheet. [Prace Inst. Hutniczych, 1966, 18, (4), 193-208] (Cz)

BISI 7381 (V. N. Peretyatko, et al.)

The work-hardening curves of some alloyed steels during hot deformation. [Izv. VUZ Chern. Met., 1968, Dec., 92-96] (R)

BISI 7400 (M. Smialowski)

Three different effects of embrittlement in various steels as a result of hydrogenation. [Mecan. Elec., 1969, 52, Jan., 23-25] (F)

BISI 7510 (H. B hler and A. Rose)

The representation of the origin of internal stresses in steel workpieces using time-temperature-transformation diagrams. [Arch. Eisenh., 1969, 40, May, 411-423] (G)

- BISI 7512 (K. Klöppel, et al.)
Experimental and theoretical studies of the damage behaviour of fatigue-loaded structural elements. [Institute for Static and Steel Constructions, Darmstadt, TH, (5), 1-97] (G)
- BISI 7543 (G. Pinard-Legry and J. Montuelle)
Hydrogen embrittlement and protection against corrosion of special martensitic steels with high mechanical properties. [Corrs.-Trait.-Prot.-Fin., 1969, 17, Jan., 7-16] (F)
- BISI 7544 (G. Sainfort, et al.)
Influence of deformation and fracture characteristics on high temperature embrittlement after irradiation of some face-centred cubic metals and alloys [J. Nuclear Mat. (Amsterdam), 1969, 30, 222-233] (F)
- BISI 7550 (V. Deutsch)
Crack detection by the magnetic particle inspection technique. [Report from an Information Sheet published by Kari Deutsch] (G)
- BISI 7596 (A. Peiter)
Continuous slitting process to determine the tangential residual stress in tube and rings. [Metall, 1969, May, 444-448] (G)
- BISI 7561 (J. Pepier)
The Mechanical properties and uniformity of structure in forged blocks of maraging steels. [Aciers Spéciaux, 1969, (7), 26-27] (F)
- BISI 7633 (F. A. Becker)
Assessment of magnetic crack detectors. [Materialprüfung, 1967, 9, Oct., 375-380] (G)
- Clad Steel, Powder Metallurgy & Hardfacing**
- BISI 7206 (S. Glezl)
On the self-lubricating properties of sintered bearings. [Strojirenstvi, 1967, 17, (12), 905-911] (Cz)
- Corrosion**
- BISI 6640 (G. Herbsleb)
Investigations into the relationship between the potential and the intercrystalline corrosion of a sensitised ferritic chromium steel with approx. 17% chromium. [Werks. Korros., 1968, 19, Mar., 204-209] (G)
- BISI 7261 (H. Zitter)
Corrosion resistant steels for severe service in nitric acid. [Dechema Monograph, 1962, 45, 129-158] (G)
- BISI 7280 (I. A. Menzies)
Some recent applications of electron probe microanalysis. [Werks. Korros., 1968, 19, Dec., 1050-1062] (G)
- BISI 7509 (A. Desestret and G. H. Wagner)
The influence of silicon and molybdenum on the susceptibility to stress corrosion of austenitic and duplex chromium nickel steels. [Werks. Korros., 1969, 20, (4), 300-305] (G)
- Metallurgy**
- BISI 6053 (C. Razim)
Effect of residual austenite and reticular carbides on the tendency to pitting of case-hardened steels. [Thesis, Techn. Hochschule Stuttgart, 1967, 98] (G)
- BISI 7469 (W. Pitsch)
Orientation relationship between cementite and austenite. [Acta Met., 1962, 10, Sept., 897-899] (G)
- BISI 7685 (H. J. Bunge)
A criterion of the reliability of pole figures for the textures of cubic crystals. [Krystallogr. Techn., 1966, 1, 171-173] (G)
- Analysis**
- BISI 7014 (K. H. Koch and K. Chls)
Reducing the analysis time and eliminating the interelement effect produced by carbon in the emission spectrometric analysis of steel. [Spectrochim. Acta, 1968, 23B, May, 427-433] (G)
- BISI 7069 (E. Stahl)
TAS-A thermomicro-separation and coating process, coupled with thin-film chromatography. [J. Chromatog., 1968, 37, 99-102] (G)
- BISI 7169 (P. Goureau and J. J. Gautier)
Practical interest in the determination of oxygen in steel. [C.D.S. Circ., 1968, (10), 2217-2240] (F)
- Miscellaneous**
- BISI 6815 (P. Mathieu)
Steel building sections development in fabrication and application methods. [Arts Manuf., 1968, Jan., 18-23] (F)

正 誤 表

「鉄と鋼」56(1970)2,p.360~365に掲載の「パラローズアニリン吸光光度法による鍛銑鉄中極微量いおう定量法」(原 寛・山田二朗・杉本公雄・山口 勝・岩切治久)を論文として掲載いたしましたが、技術報告に訂正いたします。