

資料室だより

BISI Translation 紹介

— No 52 —

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ります。

BISI Translations を利用すれば英國米国、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、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 No 721～722, 724～725

Management planning and control

BISI 12520 (E. I. Masterovoi)

Detoxification of cyanide-containing waste water and aludges in the recycled-water supply system of gas-cleaning installations in ferro-chromium production.

[Stal', 1974, (4), 378-380] (R)

Physical structure of materials and crystallography

BISI 11835 (M. Tvrđy, et al.)

Present aspects of resistance against failure in high strength steels.

[Sbornik VSB Ostrava, 1971, (3), 159-82] (C)

Physical metallurgy and metallography

BISI 12579 (V. A. Grigoryan, et al.)

Dynamic surface effect of dissolution of pyrographite in Fe-C and Ni-C melts.

[Izvest. VUZ Chern. Met., 1974, (5), pp. 55-58] (R)

BISI 12582 (E. S. Filippov)

Reasons for the grouping formation, destruc-turing melting and boiling of molten metals.

[Izvest. VUZ Chern. Met., 1974, (5), pp. 115-121] (R)

BISI 12479 (M. Gergely)

A suggested method for the calculation of hardening strains on the basis of transformation properties of the steel.

[HTM, 1972, 27, (3), 184-186] (G)

BISI 11844 (M. Slesar, et al.)

Micromechanism of cementite function in embrittlement of low carbon steels.

[Kovove Mat., 1973, (2), 163-172] (C)

Physical properties and chemical analysis

BISI 12166 (W. Schwenzeier, et al.)

Contact-less speed measurements.

[BHM, 1972, 117, (Nov.), 445-451] (G)

BISI 12071 (R. Rejc)

The determination of the coefficient of thermal conductivity of metal and ceramic materials.

[Sbornik VSB Ostrava, 1972, (2), 81-87] (C)

BISI 12527 (V. M. Vozdvizhenskii, et al.)

The possibility of using the micro-hardness method to investigate the process of thermal-fatigue failure.

[Izv. VUZ Chern. Met., 1974, (4), 136-139] (R)

Mechanical properties and material defects

BISI 11932 (M. Hempel)

The effect of some technological factors on the fatigue strength of steels.

[Draht, 1960, 11, (9), 589-600] (G)

BISI 11933 (A. Buch)

Evaluation and assessment of the effect of size in fatigue tests on unnotched specimens and components.

[Arch. Eisen, 1972, 43, 895-900] (G)

BISI 12561 (J. Chvojka)

Ultrasonic inspection of plate, and the effect of steelmaking technique on the occurrence of defects.

[Hutník, 1974, 24, (1), 18-22] (C)

BISI 12518 (A. V. Leites & E. I. Akimova)

A metallographic method of evaluating the susceptibility of carbon steel to hot cracking.

[Stal', 1974, (4), 357-358] (R)

BISI 12528 (A. Ya. Kharnov)

Investigation of the special features of the dynamic failure of cast irons.

[Izv. VUZ. Chern. Met., 1974, (4), 140-143] (R)

Corrosion and corrosion testing

BISI 11828 (V. Cihal)

A potentiodynamic method for assessing the sensitivity of stainless steels to intercrystalline

corrosion.

[Kovove Mat., 1973, (1), 86-89] (C)

BISI 6982 (A. Bartoh & Z. Bartohova)

Results and evaluation of an atmospheric corrosion test on steel, copper, and zinc in a czechoslovakian testing.

[Kor. Och. Mat., 1968, 12, (4), 69-74] (C)

BISI 12360 (K. Barton, et al.)

Calculation of atmospheric corrosion rate from meteorological and aero-chemical data.

[Koroze a ochr. Mat., 1973, 17, (5), 85-89] (C)

Protection of materials

BISI 12309 (W. Pappert)

Ternal-a new surface-treated sheet.

[Estel-Berichte aus Forschung und Entwicklung unserer Werke, 1974, (1), 24-32] (G)

BISI 12505 (M. Novak)

Research into the protective coatings applied to eliminate scale formation and decarburization in steel.

[Strojirenstvi, 1973, (3), 599-601] (C)

BISI 11910 (R. Massini)

Influence of steel composition on the corrosibility of tinplate in weakly acidic media containing organic acids.

[Industria Conserve, 1972, 47, (4), 255-264] (I)

BISI 12437 (G. Prassler)

Evaluation of the influence of the electrolyte constituents on the polarisation of nickel anodes.

[Neue Hütte, 1973, 18, (6), 342-346] (G)

BISI 12519 (V. A. Golomazov and Yu. V. Fecktistov)

Small component production: Accelerating the production of brass-coated wire for metal cord.

[Stal', 1974, (4), 367-369] (R)

BISI 12572 (F. I. Matveenkov)

Production of steel-copper sheet composites.

[Stal', 1974, (5), 435-436] (R)

BISI 12451 (F. Weber)

The manufacture and properties of hot-dip aluminised sheet.

[Stahl und Eisen, 1974, 94, (5), 28th Feb., 187-193] (G)

BISI 11757 (German Patent)

Device for the retention of liquid on fast-running metal strip.

[German Patent 2, 147-180, 29th March 1973] (G)

Rolling

BISI 12523 (B. M. Ilyukovich)

The theoretical investigation of the process of rolling passes.

[Izv. VUZ Chern. Met., 1974, (4), 69-73] (R)

BISI 11948 (I. Frantiu)

Determination of rolling forces in the manufacture of heavy austenitic steel plates.

[Metalurgia, 1973, 25, (3), 113-118] (Ru)

BISI 12461 (J. Heidepriem, et al.)

Present state and development trends in the use of process computers for rolling heavy plates.

[Stahl Eisen, 1974, 94, (8), 336-343] (G)

BISI 11873 (Z. Zamyslovaky & J. Konvicny)

Methods of calculating the spread in rolling.

[Sbornik VSB Ostrava, 1972, (1), 1-31] (C)

BISI 12650 (P. Jargstorff & H. Hartman)

On the problems regarding the difference in the degree of elongation over the width of cold-rolled plate and strip.

[Neue Hütte, 1974, (5), 275-282] (G)

BISI 12167 (F. Kosters, et al.)

Roll pass designs and roll accessories for continuous cooling Mills.

[Kleipzig Fachber 80, (10), 128, 1972, 477-484] (G)

Metal working excluding rolling

BISI 12417 (P. I. Polukhin, et al.)

Investigation of the process of longitudinal rolling of tubes in vacuum.

[Izv. VUZ Chern. Met., 1974, (3), 65-68]

BISI 12573 (O. A. Troitskii)

The electroplastic stretching and drawing of steel.

[Stal', 1974, (5), 450-453] (R)

BISI 12352 (G. Oehler)

Deformations occurring on deep-drawing of flat parts strengthened with ribs from sheet steel.

[DFBO Mitt., 1969, 20, (12), 241-247] (G)

BISI 11854 (J. Papcun)

The influence of technological conditions in production upon the change of γ -value.

[Hutnicke listy, 1973, (2), 128-132] (C)

BISI 12710 (W. Heiss)

High speed grinding in the ball bearing industry.

[Fachberichte-für Oberflächentechnik, 1973, (12), 23-25] (G)

BISI 12469 (Z. Marchiniak, et al.)

New cold forming process for machine components.

[VDI-Z, 1973, 115, (8), 9-11] (G)

Steel and alloys (technical applications and methods of production) cermets

BISI 12481 (W. Bartholome, et al.)

Determination of the machinability of free-cutting steels by means of the cross-milling process.

[Stahl und Eisen, 1972, 92, (9), 405-411] (G)

BISI 12438 (A. B. Mende & R. Oppenheim)

Studies of the recrystallization behaviour of cold-formed X10NiCrAlTi 32 20 (thermax 21/33).

[D. E. W. Tech. Ber., 1973, 13, (1), 19-22] (G)

BISI 12435 (A. P. Bond, et al.)

Comparative investigations on the corrosion of stainless steels in chloride-containing waters.

[DFBO Mitt., 1973, 24, 86-90] (G)

BISI 11860 (E. Janda, et al.)

Effect of perfection in texture on the magnetic properties of transformer sheet.

[Hutnicke Listy, 1973, 28, (3), pp. 202-209] (C)

BISI 11846 (F. Sicha)

Present state and development of steels for welded structures and equipment.

- [Zvaranie, 1973, (4), 97-99] (C)
BISI 12524 (Yu. G. Rufanov)
 The mechanism by which steels are decarburized during vacuum-hydrogen-vacuum cycles.
 [Izv. VUZ. Chern. Meth., 1974, (4), 114-115] (R)
- BISI 12374** (K. Wangnick)
 The choice of favourably-priced materials for sea water desalination plants.
 [Tech. Mitt. Krupp. Werksber, 1972, 30, (4), 175-182] (G)
- BISI 1244** (I. Opik)
 Corrosion resistance of superheater steels under the influence of ash deposits.
 [VGB Kraftwerkstech., 1973, 53, (8), 539-542] (G)
- Casting and cast metals**
- BISI 12401** (L. A. Charikhov, et al.)
 Automatic regulation of the steel level in the tundish of a continuous steel casting plant.
 [Stal', 1974, (3), 213-215] (R)
- BISI 12376** (T. Pelli and H. Zoller)
 The development of internal stresses and structural deformations during the continuous casting of aluminium alloys.
 [Metall. 1972, 26, (3), 214-218] (G)
- BISI 12547** (A. Trautwein, et al.)
 Whirlgate for the manufacture of large steel castings.
 [Giesserei, 1974, 61, (10), 304-310] (G)
- BISI 12488** (P. Sykora)
 Nodular iron quality dependent on the time elapsed from inoculation and on the wall thickness of castings under full-scale conditions at the CKD works, Prague.
- Heat treatment**
- BISI 12472** (C. Amsallen)
 Influence of surface treatment by electrolysis in fused salts on the resistance to seizure and wear of a close hardened steel.
 [Rev. Met., 1970, Nov. 945-957] (F)
- Heating, heating furnaces and electric heating**
- BISI 12571** (N. N. Rykalin)
 Plasma processes in the metallurgy of steels and alloys.
 [Stal', 1974, (5), pp. 425-428] (R)
- Fuel combustion and refractories**
- BISI 10013** (H. Wierich and H. E. Schwiete)
 Influence of furnace atmosphere on the hot compression strength of different refractories.
 [Ber. Dt. Keram. Ges., 1971, 48, (5), 210-215] (G)
- BISI 11055** (Z. Medricky)
 Possibilities of stabilisation of the mechanical properties of coke.
 [Hutnik, 1972, (9), 321-326] (C)
- BISI 12069** (M. Rédr and A. Říman)
 The determination of theoretical temperature in metallurgical furnaces.
 [Sbornik VSB Ostrava 1972, (2), 57-69] (C)
- BISI 12350** (E. Forster, et al.)
 Mathematical model of coke gasification.
- [Arch. Eisen, 1974, 45, (3), 197-205] (G)
BISI 12068 (M. Rédr)
 On the optimization of heating furnace linings.
 [Sbornik VSB Ostrava 1972, (2), 43-56] (C)
- BISI 12586** (I. P. Fominykh, et al.)
 Fireclay rich in aluminium oxide for investment casting.
 [Izvest. VUZ Chern. Met., 1974, (5), pp. 160-162] (R)
- Welding and joining**
- BISI 12489** (A. Zapletalék)
 Operational failures of weld joints of high-alloy steels.
 [Zvaranie, 1973, (12), 363-368] (C)
- BISI 12685** (B. V. Danil'chenko)
 Selecting the optimum composition for a nickel-based erosion-resistant hard facing alloy.
 [Avtomaticheskaya Svarka, 1974, (2), 32-34] (R)
- BISI 12683** (I. I. Sushchuk-Slyusarenko, et al.)
 Some ways of increasing output in electroslag welding.
 [Avtomaticheskaya Svarka, 1974, (2), 46-48] (R)
- BISI 12684** (G. V. Ksendzyk)
 Calculating the speed of cylindrical electroslag hard facing with a large-section electrode.
 [Avtomaticheskaya Svarka, 1974, (2), 35-36] (R)
- BISI 12686** (V. M. Semyonov, et al.)
 Deformation in electroslag welding of alloy steels.
 [Avtomaticheskaya Svarka, 1973, (10), 52-54] (R)
- BISI 12681** (V. M. Shekera, et al.)
 Stresses in electroslag weld-facing of cylindrical parts.
 [Avtomaticheskaya Svarka, 1974, (1), 32-35] (R)
- Ores and minerals handling and beneficiations**
- BISI 12567** (V. A. Utkov, et al.)
 Strengthening sinter with red mud.
 [Stal', 1974, (5), pp. 397-400] (R)
- BISI 12082** (A. E. Lebedev)
 Determination of the optimum carbon content in the mix for two-mix sintering with the use of an electronic computer.
 [Izv. VUZ. Chern. Met., 1973, (10), 36-39] (R)
- BISI 12511** (B. T. Petrovskii and I. I. Tselikovskii)
 Automatic water supply to a pelletizing drum on an impulse provided by the presence of mix on the inclined conveyor belt.
 [Stal', 1974, (4), 304] (R)
- BISI 11841** (V. Mihalik & R. Duda)
 Mineralographic examination of the products of magnetic separation of a spathic iron ore.
 [Rudy, 1973, 21, (4), 97-100] (C)
- Steelmaking**
- BISI 12577** (M. A. Glinkov, et al.)
 Investigation of the dynamics of scrap melting in molten open-hearth bath.
 [Izvest. VUZ Chern. Met., 1974, (5), pp. 27-31]

- (R)
BISI 12412 (N. I. Pevnyi, et al.)
 Some laws for the formation of oxides of nitrogen in open-hearth furnaces.
 [Stal', 1974, (3), 283-285] (R)
- BISI 12587** (A. E. Abroiximov & B. N. Okorokov)
 Some of the problems of controlling the oxygen converter process from the converter noise during the blow.
 [Izvest. VUZ Chern. Met., 1974, (5), 180-185] (R)
- BISI 12400** (G. I. Demin, et al.)
 Design and exploitation of oxygen roof lances.
 [Stal', 1974, (3), 209-213] (R)
- BISI 12569** (L. I. Koslov & M. A. Chernenko)
 Development of the design of twin-hearth steel-making furnaces.
 [Stal', 1974, (5), 417-422] (R)
- BISI 12354** (P. V. Riboud)
 Study of fluxes for limes.
 [C. D. S. Circ., 1974, (2), 399-411] (F)
- BISI 12676** (L. Faletti and P. L. Noferi)
 Technical problems in the supply of electrical energy to the iron and steel industry.
 [International Congress on the Electric Arc Furnace in Steelmaking (IRSID) 7-9 June, 1971] (I)
- BISI 12363** (J. Antoine)
 First results from IRSID continuous electric furnace.
 [CDS Circ., 1974, (2), 387-398]
- Extraction and refining**
- BISI 12349** (I. I. Kobylyakov)
 Indices and methods of analysis of the effectiveness of utilizing reserves of capacity of existing metallurgical plants. Communication 2.
 [Izv. VUZ. Chern. Met., 1974, (2), 183-186] (R)
- BISI 12501** (J. Cizner & R. Krejci)
 The effect of various techniques of final steel deoxidation on the morphology and chemical composition of non-metallic inclusions.
 [Hutn. Listy, 1973, 28, (12), 847-856] (C)
- BISI 12576** (E. V. Veitsman)
 Some questions of the theory of carbon oxydation in an Fe-C melt.
 [Izvest. VUZ Chern. Met., 1974, (5), pp. 13-20] (R)
- BISI 12578** (G. N. Elanskii, et al.)
 The Process of removing non-metallic inclusions during the boil in the open-hearth furnace bath.
 [Izvest. VUZ Chern. Met., 1974, (5), pp. 44-48] (R)
- BISI 11687** (Voest AG)
 Enamelling steel.
 [West German Patent 2 151 058, 5th April 1973] (G)
- BISI 12521** (S. I. Filippov & C. V. Laktionov)
 Kinetic parameters of the combined oxidation of carbon and chromium with extensive oxidising refining of a metal bath.
 [Izv. VUZ Chern. Met., 1974, (4), 14-20] (R)
- BISI 12757** (K. Knop & H. W. Rommerswinkel)
 Kinetics of deoxidation and desulphurization of steels melts by calcium.
 [Arch. Eisenh., 1974, 45, (8), 493-497] (G)
- BISI 12522** (E. I. Kadinov, et al.)
 Optimizing the control parameters for the argon-oxygen refining of a high alloy melt.
 [Izv. VUZ Chern. Met., 1974, (4), 51-54] (R)
- BISI 12570** (V. A. Medvedev)
 Improvement in metal scrap preparation quality for steelmaking units.
 [Stal', 1974, (5), 424] (R)
- BISI 12180** (Lesur and Loubert)
 Use of plant by-products as raw materials in pig iron production.
 [Bull. Tec. Usinor., 1973, (3), 79-82] (F)
- Engineering**
- BISI 12244** (D. Naudeix and J. Quinton)
 The operating efficiency of boiler installations.
 [Gaz d'aujourd' hui, 1973, 97, (2), 49-55: 55-58] (F)