

資料室だより

BISI Translation 紹介

— No 36 —

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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っています。

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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、今回から Group の仕方が少し変わりましたのでご了承下さい。“資料室だより”の別刷ご希望の方は本会調査課までご連絡下さい。無料でさし上げます。Tel. (279) 6021

BIST Translation List No. 648~652

Management planning and control

BISI 10848 (ANON)

Abbreviations of nomenclature. Elementary abbreviations. [German Standard 1353, 1971, Apr., Deutscher Normenausschuss, 1 Berlin 30, Burggrafenstrasse 4-8] (G)

BISI 11095 (M. E. Freidenzon, et al.)

Variational-analitical method of solving variational problems in the processing of metals by pressure. [Izv. VUZ Chern. Met., 1972, (10), 81-86] (R)

BISI 11180 (ANON)

Types of protection for electric machines.
[DIN 40050 Blatt 2, 1972, June] (G)

Physical metallurgy and metallography

BISI 10557 (B. Thomas and G. Henry)

The influence of silicon on the plastic deformation of 18 Cr 14 Ni austenitic stainless steel. [Rev. Met. Mem. Sci., 1967, (7/8), 625-636] (F)

BISI 10946 (S. Matoba and S. Banya)

The equilibrium between carbon and oxygen in molten iron saturated with carbon (I).
[Tetsu-to-Hagane, 1957, 43, (8), 790-6] (J)

BISI 11023 (M. Gergely)

Possibility of standardized representation of transformation behaviour in steels.
[Neue Hütte, 1971, 16, Dec., 746-748] (G)

Physical properties and chemical analysis

BISI 10236 (J. Buza, et al.)

Evaluation of the surface roughness of a deep-drawing dull-finish sheet. Comparison of sheets of various producers as for surface roughness. [Hutn. Listy, 1972, (1), 31-38] (C)

Mechanical properties and material defects

BISI 10620 (W. Schmidt)

Scatter in notch toughness tests.

[Blech Rohre Profile. 1971, (8), 309-311] (G)
BISI 10936 (T. Kunitaka, et al.)

The effect of transformation structures on the toughness of quench-tempered low-carbon low-alloy steels. [Towards Improved Ductility and Toughness, Kyoto Int. Conf., 1971, Oct., 83-100]

BISI 10938 (I. Tamura and T. Maki)

Ductility enhanced by martensitic transformation in metastable austenitic iron alloys.
[Towards Improved Ductility and Toughness, Kyoto Int. Conf., 1971, Oct. 183-193]

BISI 10939 (M. Tanaka and J. Yamamoto)

Ductility of age-hardenable martensitic iron alloys. [Towards Improved Ductility and Toughness, Kyoto Int. Conf., 1971, Oct., 195-206] (J)

BISI 10964 (V. Ya. Gancho et al.)

Influence of metallurgical factors on the mechanical and cutting properties of the alloy V14M7K25. [Stal', 1972, (9), 842-844] (R)

BISI 11101 (H. Mayer)

Study on the distribution of lead in free-cutting steel containing sulphur and lead.
[Stahl Eisen, 1968, 88, Dec. 26, 1445-9] (G)

BISI 11105 (D. Munzner and J. Ulbricht)

Factors influencing the creep of torsion bars and relaxation in hot-formed helical compression springs. [Hoesch, 1972, (4), 168-176] (G)

Corrosion and corrosion testing

BISI 11022 (A. Kugler, et al.)

Effect of molybdenum content of austenitic stainless steels on seawater corrosion resistance in field tests on the island of Heligoland.
[Stahl Eisen, 1972, 92, Oct. 12, 1026-30] (G)

Protection of materials

BISI 9874 (M. Endoh)

Adherence of alumina coatings deposited on steel by projection. [Corros. Trait. Pro. 1971,

- 19, (2), 69-73] (F)
BISI 10282 (N. S. Novoshinskaya et al.)
 The use of inhibitors to protect the outer surface of tin cans from corrosion.
 [Rybnoe Khozyaistvo, 1971, 47, (1), 63-65] (R)
BISI 10286 (W. Schuz)
 On the regular intergrowth of FeSn₂ with alpha iron during the tinning of tinplate.
 [Metalloberfläche, 1971, 25, (6), 190-194] (G)
BISI 10351 (Hoesch AG)
 Process for one-coat enamelling of strip and sheet. [DOLLS 2, 054, 090 14th Oct. 1971]
BISI 10793 (V. Cihal, et al.)
 Possibilities of utilising stabilised steel and metal for work with molten metals.
 [Hutn. Listy, 1972, (3), 189-96] (C)
BISI 10897 (E. P. Ponomarenko, et al.)
 Research into the structure and properties of carbon steel after vacuum silicizing.
 [Izv. VUZ Chern. Met., 1972, (8), 123-7] (R)
BISI 11115 (E. Knappe and H. Pelshanke)
 Developments in the field of paints for electron beam hardening.
 [Oberfläche, 1971, 3, 120-124] (G)
- Rolling**
- BISI 9908** (V. A. Gengrinovich and I. L. Roikh)
 The choice of pressures for the glow discharge cleaning of metal surfaces in continuous processes. [Elektronnaya obrabotka materialov, 1969, 1, 41-44]
- BISI 10854** (K. H. Weber)
 On the problem of accuracy to size in cold rolling with reference to length and width.
 [Neue Hütte, 1972, 17, (7), 407-412] (G)
- BISI 10866** (F. Salmen, et al.)
 On the high speed rolling of special steel wire rod. [Drahtwelt, 1972, 58, (2), 103-10] (G)
- BISI 10883** (N. N. Druzhinin, et al.)
 Control of the speed conditions on a continuous hot wide strip mill.
 [Stal', 1972, (8), 729-733] (R)
- BISI 10948** (J. Neuhauss, et al.)
 Investigation of the surface quality of finished rolled products.
 [Stahl Eisen, 1972, 92, (22), 1106-1113]
- BISI 10976** (P. I. Polukhin, et al.)
 Investigation of spread when rolling rings.
 [Izv. VUZ Chern. Met., 1972, (9), 69-71] (R)
- BISI 10994** (M. Adrian, et al.)
 Engineering parameter effect on the width distortion conditions in hot-rolling.
 [Metalurgia, 1972, 24, (6), 391-394] (Ru)
- BISI 10995** (N. Iaten et al.)
 Engineering features concerning the casting of extra-hard cast iron using a duplex process.
 [Metalurgia, 1972, 24, (6), 395-399] (Ru)
- BISI 11016** (French Standard)
 Iron and steel products: medium and heavy plates: tolerances.
 [French Standard NF A46-503, 1969, Nov] (F)

- BISI 11017** (French Standard)
 Iron and steel products: medium and heavy plates; tolerances on flatness.
 [French Standard NF A46-504, 1966, July] (F)
- BISI 11096** (V. M. Moskvin)
 Transitional processes and optimum control of the acceleration (retardation) of a continuous coldrolling mill-II.
 [Izv. VUZ Chern. Met., 1972, (10), 87-92] (R)
- BISI 11097** (N. A. Chelyshev, et al.)
 Effect of character of growth of static loads when gripping the metal with the rolls on the dynamics of operation of the main mill drive-II. [Izv. VUZ Chern. Met., 1972, (10), 93-96] (R)
- BISI 11195** (B. A. Obodovskii and R. E. Urbanskii)
 Stress state in the torsion of the parts of wobbler couplings of rolling mills.
 [Izv. VUZ Chern. Met., 1972, (11), 84-86] (R)
- Metal working excluding rolling**
- BISI 9655** (H. Tarmann, et al.)
 Precision forged turbine blade as a performance-determining structural component of steel and gas turbines.
 [BHM, 1971, 116, 105-109] (G)
- BISI 10347** (D. Schulz)
 Suitability of various lubricants for deep drawing of stainless steel, using tool steel and bronze tools.
 [Blech Rohr Profile, 1971, (4), 135-40] (G)
- BISI 10348** (H. Schelosky)
 Stretch drawing of cups.
 [Blech Rohre Profile, 1970, (12), 13-15] (G)
- BISI 10488** (A. Bugini)
 Rolling limits for tubes made by stretch reducing mill.
 [Tracciatura e Stampaggio, 1970, Oct., 173-8] (I)
- BISI 10743** (M. Zidek et al.)
 The effect of roughing mill procedure on surface quality of semi-finished products for seamless pipes manufacture.
 [Hutn. Listy, 1972, (6), 401-406] (C)
- BISI 10978** (A. P. Kolikov, et al.)
 Investigation of the deformation zone parameters during piercing.
 [Izv. VUZ Chern. Met., 1972, (9), 83-86] (R)
- BISI 10980** (M. A. Bokman and I. M. Poznyanskii)
 Metal flow kinetics during the shearing of strip
 [Izv. VUZ Chern. Met., 1972, (9), 101-104] (R)
- BISI 11087** (V. R. Kucherenko, et al.)
 Tube reduction on CTR mills.
 [Stal', 1972, (10), 931-932] (R)
- BISI 1118** (L. Thomas)
 Technology of stainless deep drawing.
 [Aciers Speciaux, 1972, (20), 5-11] (F)

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

- BISI 10121 (A. Bäumel)
Properties and applications of N-alloyed steel X5 CrNiMoN 17 13.
[BHM, 1971, 116, Mar., 88-94] (G)
- BISI 10596 [V. L. Gutorova et al.)
Investigation of the quality of oxygen converter bulb-strip 09G2 steel.
[Stal' 1972, (5), 411-412] (R)
- BISI 10710 (German Standard)
Concrete reinforcement steel: definitions, properties, identification marks.
[DIN 488 Blatt 2, replacing DIN 488] (G)
- BISI 10950 (Brazilian Standard)
Steel wire and bars for concrete reinforcement: Specification.
[Brazilian Standard EB-3-at experimental stage- Revision of Standard approved in 1967] (Br)
- BISI 10963 (L. A. Poznyak, et al.)
Aspects of alloying and properties in medium carbon die steels.
[Stal', 1972, (9), 840-842] (R)
- BISI 11163 (Danish Standard)
Steel for reinforced concrete for non-prestressed structures: testing etc.
[Danish Standard DS 13080 1st Edition, 1959, May] (D)

Casting and cast metals

- BISI 9838 (O. Liesenberg)
[Giessereitechnik, 1971, 17, 255-260] (G)
- BISI 11094 (A. V. Vishnyakov, et al.)
Evaluation of metal temperature changes during the filling of an ingot mould.
[Izv. VUZ Chern. Met., 1972, (10), 76-80] (R)

Heat treatment

- BISI 10766 (W. di Marco and L. Verdini)
Effects of the carbon content and the temperature on the recrystallization of mild steel strip annealed in a continuous furnace.
[Met. Ital., 1970, (10), 401-404] (I)
- BISI 10898 (V. V. Goncharova, et al.)
Chemical-heat treatment practice and control of the structure of YuNDK35T5 magnetic alloy.
[Izv. VUZ Chern. Met., 1972, (8), 136-139] (R)
- BISI 11088 (M. Kh. Shorshorov, et al.)
The 08kp steel for AZhe clad metal compositions. [Stal', 1972, (10), 847-9] (R)

Heating, heating furnaces and electric heating

- BISI 10966 (S. I. Gertsyk. and A. G. Zen'kovskii)
The optimum value for the degree of darkness of a flame.
[Stal', 1972, (9), 855-7] (R)

Fuel combustion and refractories

- BISI 10244 (J. Tomek)
Treatment of powdered power-plant waste materials by cold pelletization.
[Rudy. 1972, (1), 14-16] (C)
- BIIS 10755 (M. Magdziarz)
Analysis of coke strength parameters determined by the MICUM and IRSID methods.

[Koks Smola Gaz, 1972, 17, (1), 11-17] (Po)

BISI 10975 (M. S. Sokolov)

Improving the life of OH furnace bottoms by using a fused lining.

[Izv. VUZ Chern. Met., 1972, (9), 55-58] (R)

Welding and joining

- BISI 9413 (H. Becker)
Weldability of metal-coated sheet: with regard to resistance spot welding.
[Preprint from Annual Conf., German Welding Institute, 1970, Sept. 69-92] (G)
- BISI 11117 (H. Geisler and L. Springob)
Induction heating for the longitudinal welding of tubes with an encircling inductor.
[Schweissen Schneiden, 1967, 19, (3), 117-20] (G)

Ores and minerals handling and benefications

- BISI 9955 Continuous control of sinter quality.
[Hutnik, 1971, (7/8), 248-250] (C)
- BISI 10832 (H. Bauer et al.)
Classification of very fine material at high through-put rates with a new micro screen.
[Aufbereitungs Tech., 1972, (7), 428-431] (G)
- BISI 10836 (E. Burstein)
Application of the hcc screening process for screening blast furnace charges.
[Aufbereitungs-Techn., 1972, (7), July, 438-441] (G)

- BISI 10957 (V. G. Manchinskii, et al.)
Metallurgical properties of iron-ore pellets, hardened without firing by treatment in autoclaves. [Stal', 1972, (9), 777-781] (R)

- BISI 11092 (I. A. Kopyrin, et al.)
Distribution of sulphur in pellets from the sokolovka-sarbai mining-beneficiation combine (SSGOK)

[Izv. VUZ Chern. Met., 1972, (10), 39-43] (R)

Ironmaking and ferro-alloys

- BISI 10756 (T. Yatsuka, et al.)
Injection of reducing gas into blast furnace (FTG process)
[Tetsu-to-Hagane, 1972, 58, (5), Apr., 624-36]

- BISI 10909 (T. Rogozinski)
The role of aluminium in the structure of liquid blast furnace slags.
[Prace Inst. Hutn., 1971, 23, (3), 137-43] (C)

- BISI 11090 (B. S. Fialkov)
Formation and dimensions of tuyere raceway zones in the blast furnace.

[Izv. VUZ Chern. Met., 1972, (10), 24-28] (R)

- BISI 11091 (N. L. Zhilo, et al.)
Certain peculiarities of the formation of blast-furnace slags in operation on pellets from the sokolovka-sarbai mining beneficiation combine (SSGOK)

[Izv. VUZ Chern. Met., 1972, (10), 29-33] (R)

Steelmaking

- BISI 9938 (R. Dessau, et al.)
The use of a computer for data acquisition : data processing and automation of melting shops.
[Stahl Eisen, 1971, (13), 754-60] (G)
- BISI 10581 (J. M. Vogel)

- Promotion of electricity sales by an electricity supply company: as an example, promotion of electric steelmaking in the supply are of rheinisch-westfälische elektrizitätswerke AG(RWE). [Int. Conf. on the Electric Arc Steelmaking Furnace, Cannes, 7-8th June, 1971, Conf. proceedings 178-190] (F)
- BISI 10594 (I. G. Kobeza, et al.)
The firing of an open hearth furnace with changes in the angle of inclination of the flame during the periods of the heat.
[Stal', 1972, (5), 409-411] (R)
- BISI 10960 (G. N. Kamyshev et al.)
Desulphurization of open hearth steel.
[Stal', 1972, (8), 806-807] (R)
- BISI 11086 (A. A. Drozhilov et al.)
Control of the energy schedule in large arc furnace.

- [Stal', 1972, (10), 912-914] (R)
BISI 11201 (M. Ya. Medzhibozhskii, et al.)
Determination of fume distribution in an OH furnace during charging and scrap preheating periods. [Stal', 1972, (11), 984-985] (R)
- Extraction and refining**
BISI 10881 (V. I. Yavoiskii, et al.)
Behaviour of gases during steelmaking and method of degassing.
[Stal', 1972, (8), 713-715] (R)
- Engineering**
BISI 9883 (G. Drouven)
Sandwich constructions of metal and plastics.
[VDI-Z, 1970, 112, 865-868] (G)
- BISI 11159 (ANON)
The loading of rolled products at marine ports.
[Stahl Eisen, 1968, 88, (17), 956-7] (G)