

## 資料室だより

## BISITS Translation 紹介

— No 5 —

## BISITS Translation の特長

英国鉄鋼業界、BISRA および英国鉄鋼協会は共同で BISITS を運営しています。この BISITS は BISITS Translations を発行しています。BISITS Translations は世界各国の主要鉄鋼技術誌および学術誌のうち主要論文を全文英訳したものです。これらの論文は、世界各国が発刊する多数の Journals から選択されており、鉄鋼関係の研究者向きの論文を網羅しています。

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きます。

BISITS Translations を利用すれば英国米国、以外の主要製鉄国の主要論文を極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。

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。

(List Nos. 486~490)

**Mineral Sources, Ores, Mining & Treatment.**

BISI 6427 (U. Colombo, et al.)

Benefiation of iron ores by magnetizing reduction in a fluidized bed. [Rev. Ind. Minérale, 1967, 49, July, 492-500] (F)

BISI 7454 (V. Jasaň and S. Mosolygo)

The pelletization of siderite concentrates in the nižná slaná iron ore miens and some comparisons. [Rudy, 1968, 16, (9), 303-306] (Cz)

**Fuel Preperation, Propeties and Uses.**

BISI 6365 (E. Simode)

The ventilation computing center of the lorraine coal mines and its ventilation simulator. [Rev. Ind. Minérale, 1967, 49, Oct., 706-728] (F)

BISI 6755-X (M. Ya. German)

Gas supply to Metallurgical enterprises. [Primenenie prirodnogo gaza v chernoi metallurgii (Using natural gas in ferrous metallurgy) Metallurgiya Moscow, 1966, 121-132] (Ru)

BISI 6755-XI (M. Ya. German)

Equipment used in the gas industry. [Primenenie prirodnogo gaza v chernoi metallurgii (Using natural gas in ferrous metallurgy) Metallurgiya Moscow, 1966, 133-140] (Ru)

BISI 6983 (W. Simonis)

Mathematical description of high temperature coking in Horizontal chambers. [Gluckauf, 1968, 29, Mer, 103-119] (G)

BISI 7249 (H. Bergström)

Carbonising in charcoal kilns and local small-scale charcoal Burning. [Jernkon. Ann, 1940, 124, June, 265-273] (Sw)

**Refractory materials.**

BISI 6917 (J. P. Vidal, et al)

Applications of radioactive tracers in the use of refractories. [Bull. Soc. Fr. Ceram., 1968,

Jan.-Mar., 53-60] (F)

BISI 7186 (W. Deilmann)

Contribution to the question of ladle linings. [Redex Pwnd., 1969, Jan., 402-415] (G)

**Blast furnace practice & Production of Pigiron & Ferro alloy.**

BISI 6296 (G. Rossi and A. Cignolini)

Ferrous sulphate and dust from brown fumes as raw materials for producing pure iron and special charges for iron-base alloys. [Met. Ital., 1967, 59, July, 551-563] (I)

BISI 6992 (A. N. Pokhvisnev, et al)

On the Calculation of the heat content of the Blast Furnace-Part I. [Izv. VUZ Chern. Met., 1966, (7), 25-29] (Ru)

BISI 7168 (C. Holstein)

Research into the optimal characteristics of construction and use of the cowper stove. [C. D. S. Circ., 1698, (11), 2419-2449] (F)

**Production of steel.**

BISI 6244 (L. Antoine, et al)

Results of an Industrial use of Remelting Under Electrically Conductive slag. [Rev. Mé. 1967, 64, July-Aug., 623-634] (F)

BISI 6492 (P. Caruso)

Aspects of L. D. Gas Cooling and Cleaning. [Met. Ital., 1967, 59, (9), 699-712] (I)

BISI 6499 (A. A. Vorob'ev, et al)

On the nature of the primary products of de-oxidation of iron with aluminium. [Izv. VUZ Chern. Met., 1967 (11) 74, 79] (Ru)

BISI 6703 (H. Schenck & E. Steinmetz)

Oxygen activity in the iron-oxygen system and the possibility of its control by addition of other elements at steelmaking temperature.

I-Activity of oxygen in the iron-oxygen system [Arch. Eisend., 1967, 38, Nov., 813-819] (G)

BISI 6755-VI (Kh. L. Fridman)

Use of natural gas in the furnaces. [Primenenie prirodnogo gaza v chernoi metallurgii (Using natural gas in ferrous metallurgy) Metallurgiya, Moscow, 1966, 73-97] (Ru)

BISI 7107 (G. Breuer, et al)

Contribution to knowledge of the decarburization of iron-carbon melts. [Asch. Eisenh., 1968, 39, Aug., 553-557] (G)

BISI 7184 (H. Maschler and G. Taubert)

Present state of the art and trends in the development of the electric arc furnace process. [Neue Hütte, 1968, 13, Sept. 513-517] (G)

BISI 7211 (F. Adamek)

Tandem steel-making furnace in the vitkovice iron and steel plant. [Hutn. Listy, 1968, 23, (1), 21-24] (Cz)

BISI 7263 (F. W. Mollenkamp)

The future of electric steelmaking. [Kleipzig Fachber., 1968, 76, Oct., 581-586] (G)

BISI 7290 (C. Roederer)

Commission on oxygen steelworks review of different studies undertaken by the "technology" sub-commission, with disc. [C. D. S. Circ., 1968, (11), 2485-2495] (F)

BISI 7361 (J. Celada)

Hyl sponge iron for electric steelmaking. [International Congress on the Production and Use of Pre-reduced ores Evian, 1967, May, 317-322] (F)

BISI 7370 (H. Bosch, et al)

The combination of the nitrogen with soda and blast furnace slags. [Arch. Eisenh., 1969, 40, Apr., 271-276] (G)

BISI 7480 (K. Fellcht, et al)

Development of electric steelmaking with special reference to the inauguration of the operation of a high-efficiency 40-ton arc furnace. [Neue Hütte, 1969, 14, Mar., 133-137] (G)

BISI 7511 (P. Artelt, et al)

Use of plate feeder heads and of covering powders for insulating the heads of killed steel sheet slabs. [Stahl Eisen, 1969, 89, May 29, 573-580] (G)

BISI 7597 (A. G. Quèrrell)

Consumable electrode remelting. [Met. ABM, 1969, 25, May, 327-341] (Port)

#### Foundry practice.

BISI 6347 (J. Polak)

Present and future limitations for the use of malleable iron and cast iron with spheroidal graphite. [Giessereitechnik, 1967, 13, Aug., 229-234] (G)

BISI 6755-VII (N. S. Dukhan)

Natural gas in the foundry. [primenienie prirodnogo gaza v chernoi metallurgii (Using natural gas in ferrous metallurgy), Metallurgiya, Moscow, 1966, 98-101] (Ru)

BISI 7159 (F. Henke)

Chromium in special cast irons. [Giesserei-Praxis, 1968, Dec. 10, 471-481-I, Dec. 25, 487-495-II] (G)

BISI 7189 (F. Naumann)

Chilled casting applications in Grey and Malleable iron foundries. [Giessereitechnik, 1955,

1, Dec., 230-233] (G)

BISI 7190 (E. Bakovsky)

Casting in iron moulds for the production of high quality grey cast iron components. [Giessereitechnik, 1956, 2, Oct., 225-233] (G)

BISI 7194 (J. Czikel)

Some materials problems of grey iron and malleable iron die castings. [Giess. Nachr., 1959, 6, (9), 13-23] (G)

#### Heat-treatment furnace, Reheating furnace & Soaking pits.

BISI 6755-VIII (N. S. Dukhan)

Use of natural gas in reheating furnaces. [Primenenie prirodnogo gaza v chernoi metallurgii (Using natural gas in ferrous metallurgy), Metallurgiya, Moscow, 1966, 102-108] (Ru)

BISI 7016 (F. J. Marinas)

Thermal diffusion of elements and compounds at the surface of steel. [Met. Elec., 1967, 31, July, 189-194] (Sp)

BISI 7102 (K. H. Illgner)

Viewpoint on the selection of heat-treatable and case-hardening steels. [Metalloberfläche, 1968, 22, Nov., 321-330] (G)

BISI 7481 (A. Crafti and C. Ciotta)

Studies of the decarburisation of spring steels and ball bearing steels under the heating conditions in pusher furnaces. [Cerc. Met., 1967, 9, 449-459] (Rum)

BISI 7451 (H. W. Grasshoff, et al)

Effect of Different dewpoints on the heat treatment atmosphere on the decarburization of heat treatable steels. [Hoeseh Ber. Forsch. Entwickl., 1969, (2), 52-65] (G)

BISI 7553 (H. Meyer-Nolkemper)

Hardening and tempering forgings from forging heat. [Werkstattstechnik, 1969, 59, (2), 53-55] (G)

#### Forging, Pressing, Drawing, Extrusion, Swaging & Stamping

BISI 6630 (A. A. Karakina, al)

Determination of the temperature field during deformation. [Izv. VUZ Chern. Met., 1966, (8), 122-127] (Ru)

BISI 6631 (G. Fritzsche and R. Siegei)

Fundamental studies of materials for semi-hot extrusion. [Neue Hütte, 1966, 11, July, 396-401] (G)

BISI 7068 (L. N. Sokolov, et al)

Production of hollow forgings from ingots of a new shape cast into ingot moulds without a feeder head [Kuznecho-Shtampov., 1967, (3), 12-15] (Ru)

BISI 7375 (R. Gerschner)

Changes in the geometry of defects in cold drawn sunk, plug and mandrel drawn seamless steel tubes. [Bndar Bleche, 1969, 10, Apr., 187-202] (G)

BISI 7393 (R. Werner)

Grain refinement during hot forming. [Stahl Eisen, 1969, 89, Apr. 3, 364-373] (G)

BISI 7539 (A. G. de Aledo)

Heavy forging industry in Spain. [Economic-Industrial, 1969, Mar., 13 pp.] (Sp)

### Rolling & Rolling Practices

- BISI 6088 (J. Veščíšák)  
Rolling and roll-profile design for flat shapes in the Klement Gottwald (Vitkovice) steelworks-vžkg. [Hutník, 1968, 18, (8), 388-392] (Cz)
- BISI 7006 (J. D. Shelesnow, et al.)  
Effect of strip tension on the quality of cold strip and control of strip tension during the rolling process. [Neue Hütte, 1968, 13, Sept., 531-534] (G)
- BISI 7076 (O. Petrzilka)  
Specialization of rolling mill trains from the point of view of production economy. [Sborník přednášek z konf. o rozvoji hutnictví, Ostrava, 1966, Nov. 22-24, 217-218] (Cz)
- BISI 7081 (E. Červený)  
Technical and economical conditions of production of corrosion-resisting steel strip in Czechoslovakia. [Sborník přednášek z konf. o rozvoji hutnictví Ostrava, 1966, Nov. 22-24, 200-209] (Cz)
- BISI 7161 (H. Anhaus)  
A computer for automation of a cooling mill in Rumania. [Siemens-Z., 1968, 42, (9), 671-673] (G)
- BISI 7202 (J. Ludyga, et al.)  
Technical planning of cogging mills. [Kalibreur, 1968, Sept., 3-24] (G & F)
- BISI 7203 (V. L. Mukhomorov, et al.)  
Calculation of idling time (including manipulating time) on a cogging mill. [Izv. VUZ Chern. Met., 1968, Oct., 81-85] (Ru)
- BISI 7204 (V. P. Polukhin)  
Investigation of the continuous plate rolling process based on mathematical models using an electronic computer. [Izv. VUZ Chern. Met., 1968, Oct., 86-92] (Ru)
- BISI 7236 (F. Wiesner)  
The development of the rolling of thin foils. [Hutn. Listy, 1968, 23, (11), 805-808] (Cz)
- BISI 7239 (N. Foltyn, et al.)  
Conditions for hot working silicon steels. [Hutn. Listy, 1968, 23, (10), 688-693] (Cz)
- BISI 7276 (H. Kuntze, et al.)  
Causes of the generation of local warpings of cold rolling of thin wide strip. [Stahl Eisen, 1969, 89, Feb. 6th, 137-139] (G)
- BISI 7383 (S. Bala and E. Orzel)  
Plastic resistance of hot-rolled strip. [Hutník, 1968, 35, (9), 407-411] (Po)
- BISI 7433 (M. Běhal)  
The contribution of the Vitkovice steel and ironworks (vžkg) in the branch of plants for tube rolling mills. [Sborník Symp. "Stiefel VŽKG" paper J] (Cz)
- BISI 7462 (E. Putz, et al.)  
Experience with crack detection on Black and bright round bars using the Forster defectometer and circograph. [DEW Techn. Ber., 1969, 9, (1), 54-58] (G)
- BISI 7506 (H. Azemar)

A Mechanised train for the inspection and finishing of semi-products. [C. D. S. Circ., 1969, (2), 467-475] (F)

### Machinery, Machining, Machinability & Services for Iron and Steel Plant.

- BISI 6132 (H. Mütze)  
Contribution to the machinability of high-temperature materials. [Thesis, Rheinisch-Westfälische Techn. Hochschule Aachen, 1967, 113 pp.] (G)
- BISI 6502 (P. Ravizza & E. Silva)  
Observations on anisotropy in the machinability of steels and on some methods for determining it. [Met. Ital., 1967, 59, Oct., 818-822] (I)
- BISI 7231 (L. Příbyl & Z. Sklenář)  
Truck transport of hot slag. [Hutník, 1968, 18 (5), 241-243] (Cz)
- BISI 7397 (K. Hennies)  
Lateral forces acting on overhead travelling cranes due to crane running aslant. [Stahl Eisen, 1969, 89, Apr. 17, 398-404] (G)

### Welding

- BISI 7352 (V.I. Mitin and H.A. Zubarev)  
Investigation of the fatigue strength of wheels welded in a CO<sub>2</sub> atmosphere. [Avtom. Prom., 1968, Mar., 26-28] (Ru)

### Plating, Protective Coatings, Cleaning Pickling.

- BISI 7368 (G. Wünsche)  
Canning problems in the long storage of fish preserves. [Verpackungs Rundschau, 1968, (9), 1074-1081] (G)
- BISI 7465 (G. Bionda, et al.)  
Analysis of microquantities of lead in tinned foods by means of atomic absorption spectrophotometry. [La Ricerca Scientifica, 1967, 37, July/Aug., 665-667] (I)
- BISI 7529 (R. Seidler)  
New developments in the field of metal varnishing. [Suppl. to Galvano-Technik, 1968, 59, (7), 12] (G)

### Properties & Tests.

- BISI 6261 (M. Theolier, et al.)  
Fatigue tests and measurement of elastic stress in steel wires as a function of the degree of work-hardening. Existence of a critical domain of work-hardening. [Rev. Mét. 1967, 64, July-Aug., 649-652] (F)
- BISI 6761 (ANON)  
Cold rolled steel sheet non-susceptible to aging, for deep drawing and manufacturing process of this steel. [French Patent 1, 381, 221, 1-16] (F)
- BISI 6856 (J. M. Dorlot)  
Strain aging of iron-carbon alloys. [Can. Met. Q., 1967, 6, Oct.-Dec., 375-399] (F)
- BISI 7122 (V. Zedník and Z. Kaderavek)  
The mechanism of fracture in pearlite. [Hutn. Listy, 1951, 6, May, 211-220] (Cz)
- BISI 7125 (G. Junker and G. Meyer)  
A fresh look at the holding behaviour of dynamically-loaded bolted joints. [Draht-Welt, 1967, 53, July, 487-499] (G)

BISI 7264 (F. Schmidt, et al.)  
Effects of small additions of vanadium on the mechanical properties and the structure of weldable structural steels and the binding of vanadium as carbonitride. [Bänder Bleche, 1968, 9, Oct., 602-610] (G)

BISI 7346 (A. Dietzel, et al.)  
The use of linear polarized microwaves for non-destructive materials testing. [Elektronische Rund., 1959, (4), 122-123] (G)

#### Clad Steel, Powder Metallurgy & Herdfacing

BISI 6362 (A. Domsa, et al.)  
On the increase of apparent density of 'frem' powders. [Met. Ital., 1967, 59, (7), 546-550] (I)

BISI 7055 (G. Wassermann)  
[2nd European Symposium on Powder Metallurgy, Stuttgart, 1968, 1, May 8-10, 1, 18, 7 pp.] (G)

BISI 7095 (G. Griesshammer & E.-G. Lieske)  
Production of metal powders by ultrasonic atomization of metallic melts. [V.D.I.-Z., 1968, 110, Mar., 343-348] (G)

BISI 7157 (I. Ljungberg)  
Preparation and properties of electrolytic iron powder. [Stahl Eisen, 1954, 74, Feb. 25, 279-289] (G)

BISI 7452 (L.D. Golman, et al.)  
Some problems of the theory of the process of hydrostatic pressing of powdered materials. [Fiz. Khim. Obrabot. Materialov., 1968, May-June, 95-103] (Ru)

#### Corrosion

BISI 6555 (G.P. Legry and J. Montuelle)  
Improvement of the corrosion resistance of special steels with high mechanical properties. [Comptes Rend., Sér. C. 1967, 265, Dec. 18, 1410-1413] (F)

BISI 7156 (H. Wiegand, et al.)  
Stress-corrosion cracking behaviour of rust and acid-resistant austenitic steels in alkaline-earth metal halide solutions. [Metalloberfläche, 1968, 22, Dec., 353-361] (G)

BISI 7160 (K. Endo and K. Komai)  
Observations of electrochemical processes during the corrosion fatigue of steel in acids. [Metalloberfläche, 1968, 22, Dec., 378-384] (G)

BISI 7291 (H. Grafen)  
Electrochemical measuring methods for the study of stress corrosion cracking and corrosion fatigue. [Werks. Korros., 1969, 20, Mar., 209-215] (G)

BISI 7341 (F. Kaluza and J. Michalik)  
Atmospheric corrosion resistance of some low-alloy steels and their welded joints. [Przeglad Spawalnictwa, 1967, 19, (11), 261-267] (Po)

BISI 7353 (M.J. Reidt and J.L.J. Tervoort)  
The use of glucomate compounds in alkaline baths for the currentless and electrolytic derusting of iron and steel. [TNO News, 1968, 23, Jan., 9-18] (Du)

BISI 6360 (B. Brachet, et al.)  
Influence of surface structure of high strength steel wire for prestressed concrete on stress corrosion behaviour in a humid atmosphere.

[Rev. Mét. Mém. Sci., 1967, 64, July-Aug., 607-614] (F)

BISI 6364 (G. Weber)  
Pressurized oil-atomized type burners for boilers of medium and high capacity. [V.G.B. Mitt., 1967, Feb., (106), 1-11] (G)

#### Metallography

BISI 6945 (V. Cihal, et al.)  
Electron microscope study of carbide precipitation in stainless steels. [Werks. Korros., 1968, 19, Sept., 796-804] (G)

BISI 6883 (H. Scheidl)  
Precipitation strengthening of austenitic chromium-nickel steels, especially by phosphorus additions. [Radex Rund., 1968, July, 200-211] (G)

BISI 7513 (J. von Fircks)  
Martensite formation in  $\delta$ -ferrite-containing metastable austenitic Cr-Ni steels. [Neue Hütte, 1969, 14, Apr., 233-237] (G)

#### Analysis

BISI 6297 (G. Staats and H. Brück.)  
Determination of small amount of niobium with 4-(2-pyridylazo) resorcinol and of zirconium with pyrocatechol-violet in steel. [Z. Analyt. Chemie. Spec. Reprint 230, 1967, 4, 271-276] (G)

BISI 6501 (H. Ebel)  
Determination of powder grain size by X-ray fluorescent spectroscopy. [Z. Metallk., 1967, 58, Dec., 903-904] (G)

BISI 6944  
Sample taking of steel for spectrometric control of the melt. [Hoesch Ber., 1968, 3, (2), 47-51] (G)

BISI 7383 (P. König, et al.)  
Routine employment of an atomic absorption spectrometer in the laboratory of an iron and steel works. [Arch. Eisenh., 1969, 40, Jan., 53-56] (G)

BISI 7554 (A.K. Rusanov)  
Spectral analysis with injection of powder into a discharge plasma. [Coll. Spectr. Int., 1967, B14, 379-395] (Ru)

#### Miscellaneous

BISI 6633 (K.E. Jakenberg)  
The organization and economy of research. [Jernkon. Ann., 1968, 152, (1), 9-18] (Sw)

BISI 7237 (B. Dubsy, et al.)  
Some automation installations for steelworks. [Hutn. Listy, 1968, 23, (11), 809-814] (Cz)

BISI 7382 (A. Bruna & P. G. Caldera-I)  
(G. Agelao & G. Benincasa-II)  
The detection of gas leaks by means of radioactive tracers.

I. Assessment of two methods for the detection of leaks in underground gas supply mains based respectively on the use of a sodium chloride aerosol marked with Na-24 and on the use of methyl bromide marked with Br-82

II. Recent researches into the detection of gas leaks in underground mains with the aid of Na-24 or another radio-isotope

[European Atomic Energy Commission-Eur. 4056f] (F)

BISI 7455 (J. Heimerl)  
Noise abatement in a works producing special steels. [Stahl Eisen, 1969, 89, Apr. 17, 427-432] (G)

## 昭和 44 年度受入れ図書について

本会資料室では、1968 年度より、本資料委員会で図書購入について、基本方針を検討し、1969 年度も引続き便覧ハンドブック、規格（特に ASTM については、維持会員となっている。）などを中心として 200 余冊の図書を購入（この中で約半数は寄贈である）2300 余冊の蔵書数となりました。

1969 年度に備えました図書は、下記のとおりですので会員各位のご利用をお待ちしております

## —和 書—

書 名	著 編 者	発 行 所	発行年
第 3 回西山記念技術講座 金属材料の疲労	日本鉄鋼協会	日本鉄鋼協会	1969
第 4 回西山記念技術講座 鉄鋼の凝固現象	〃	〃	〃
第 5 回西山記念技術講座 金属材料の高速変形	〃	〃	〃
第 6 回西山記念技術講座 鉄鋼業における計測と制御	〃	〃	〃
日・ソ製鋼物理化学 シンポジウム論文集 1967 年度	〃	〃	〃
原子炉多目的利用調査団報告書 一原子力エネルギーの製鉄利用に関する海外調査結果一	〃	〃	〃
高温圧力容器用耐熱材料の高温特性に関する研究	クリープ委員会	クリープ委員会	1968
The Second JAPAN-USSR Joint Symposium on Physical Chemistry of Metallurgical Processes	日本鉄鋼協会	日本鉄鋼協会	1969
鋼材マニュアルシリーズ (1)	〃	〃	〃
厚板マニュアル	鋼板部会, 厚板分科会	鋼板部会, 厚板分科会	〃
鋼の真空溶解および真空脱ガス法の進考 一特殊鋼部会報告一	日本鉄鋼協会	日本鉄鋼協会	〃
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工業材料研究便覧	産業技術会議	産業技術会議	〃
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1969 JIS 総目録	日本規格協会	日本規格協会	〃
商工組合中央金庫 30 年史	商工組合中央金庫	商工組合中央金庫	〃
大和銀行 50 年史	大和銀行 50 年史編纂委員会	大和銀行	〃
鉄鋼 10 年史 一昭和 33 年～42 年一	鉄鋼 10 年史編集委員会	日本鉄鋼連盟	〃
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