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The Forest and Its Edible Products,  
I (Plants), by R. Soepardi, 69 pp.  
VIETNAMESE, rpt, Hutan dan Hasilnya yang  
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\*JPRS

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Report on Short Term Variations in the Kuroshio  
or Black Tide Current, by S. Yochida.  
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Sci -  
Aug 67

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Studies on Cobalt Deficiency Diseases in Ruminants. 2. Variations in the Blood Plasma Components in Test Production of Cobalt Deficiency Diseases, by R. Inoue, M. Onishi. JAPANESE, per, Hyogo Agric. Univ. Res. Rep. Vol 6, No 2, 1964, pp 89-94. CSIRO/No. 9491

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CHINESE, bk, I-ch'ang Bookstore, Dec 1953.

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\*JPRS/SPECIAL/NY-7998

FE - China  
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Tr No 102727

Sci - Biology  
Jan 61

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Report No II. The Histochemical Distribution  
of Alkaline and Acid Ribonucleo- and Desoxyri-  
bonucleo-Phosphatase in Rabbit Tissues, by  
Shigeru Masu, 36 pp.

JAPANESE, per, Igaku Kenkyu (Acta Medica), Vol  
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Sci - Biology  
Oct 56    CTS

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Order from K-H \$11.35                      K-H-3439-a

Trans. of Igaku Kenkyu (Japan) 1954, v. 24 [no. 8]  
p. 1531-1538.

DESCRIPTORS: \*Nicotine, Tobacco, \*Heart,  
\*Electrocardiography.

(Biological Sciences--Pathology, TT, v. 9, no. 2)

I. Milda, S.  
II. K-H-3439-a  
III. Kresge-Hooker Science  
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Detroit, Mich.

Office of Technical Services

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Miida, Deido.  
STUDY ON THE INFLUENCE OF SMOKING UPON  
BLOOD CIRCULATION. [1962] 17p.  
Order from K-H \$21.25                      K-H 3490

Trans. of Igaku Kenkyu (Japan) 1954, v. 24, no. 8,  
p. 1539-1549.

DESCRIPTORS: \*Cigarettes, Tobacco, Smokes,  
\*Blood circulation.

I. Miida, D.  
II. K-H-3490  
III. Kresge-Hooker Science  
Library Associates,  
Detroit, Mich.

(Biological Sciences--Pathology, TT, v. 9, no. 1)

Office of Technical Services

The Blood Pressure-Reducing Action of Extract of the Pyloric Appendage of Certain Fish and the Composition of the Extracted Substance as Determined by Paper Electrophoresis, by K. Kendo, M. Shigyo, K. Nomura, H. Imamura, 13 pp.

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NIH 12-8

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Sci - Med

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JAPANESE, per, Igaku Kenkyo, Vol 34, 1964,  
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The Acquisition of a Penicillin-Resistant Strain  
of *Cl. Welchii* and Its Toxin-Producing Activity,  
by Yukata Yuata.

JAPANESE, per, Igaku to Seibutsugaku, No 14,  
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NIH 3-9-63

Sci - Biol/Med Sci

JUL 63

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Changes in the Inhibitory Activity of Blood on  
the Growth of Mycobacterium Tuberculosis Induced  
by Repeated Operation, by Sychachiro Otsuka.

JAPANESE, per, Igaku to Seibutsugaku, No 14, 1948.

WH 3-8-63

Sci - Biol./Med Sci

Jul 63

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The Influence of Kinokition on Anaerobic Bacteria,  
by Norihiko Hasegawa.

JAPANESE, per, Igaku to Seibutsugaku, No 14, 1968.

NIH 3-7-63

Sci - Biol./Med Sci

Jul 63

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Studies on Blood Catalase (II) Microassay Method  
For Blood Catalase, by Koichiro Saito.

JAPANESE, por, Igaku to Seibutsugaku, To 14,  
1968.

NIH 3-6-63

Sci. - Biol./Med Sci

Jul 63

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Clinical Experimental Observations on the Injection  
of Sodium Amytal Into the Carotid Artery, by  
Jun Wada, *et al.*

JAPANESE, per, *Igaku to Seibutsugaku (Medicine and  
Biology)*, Vol XIV, No 4, 1949, pp 221, 222.

NIH 3-36-61

Sci - Med  
May 61

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An Agmatine-Like Amine Discovered in the Urine  
of Patients With Hepato-Cerebral Diseases of  
the Inose type, by K. Takahashi, H. Enomoto,  
H. Momiyama, 4 pp.

JAPANESE, per, Igaku to Seibutsugaku, Vol XXXII,  
No 2, 1954, pp 81-83.

ATS-55M38J

Sci -  
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Vol. III, No 11

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Studies of the Arginine-Like Amine in the Urine  
of Patients With Hepatic Coma, II, by  
K. Takahashi, H. Enomoto, et al, 4 pp.

JAPANESE, per, Igaku to Seibutsugaku, Vol XXXII,  
No 6, 1954, pp 279-281.

ATB-56M38J

Sci  
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Vol III, No 11

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A Noteworthy Fact About the Activation of  
Plasminogens of Various Animal Species by  
Varidase (Lederle), by Hayashi, Takayoshi,  
Machawa, Shizue, 6 p.

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XXIV, No 5,

SLA 59-15438

Sci  
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Vol 2, No 6

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Japanese B Encephalitis Virus. 2. Infectivity of Alcohol-Purified Virus Extracted with So-Called Non-Polar Organic Lipid Solvents, by S. Yoshikawa.  
JAPANESE, per, Igaku to Seibutsugaku, Vol 69, No4, 1964, pp 220-223.  
SIA TT-65-17383

Sci-B&M  
June 66

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Induction of Myelogenous Leukemia in the RF  
Mouse by Oral Administration of 20-Methylcholanthrene  
and Co-leukemogenic Action of Croton Oil,  
by Shozo Iriha, Tatsuo Sezaki.  
JAPANESE, per, Igaku to Seibutsugaku, Vol. LXVIII,  
No 5, 1964, pp 206-212. 9231911  
AEC-ORNL-Tr-901

Sci - B/M  
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Survey of Combined-Practice (Chinese Native and Western Medicine) Clinics and Investigation and Study of Joint Clinics in Shanghai, by Ku Hsing-yuan, 28 pp.

CHINESE, per, I-haush-shih yu Pao-chien Tzu-chih, Vol II, No 3, 1958, pp 192-197.

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Sai - Med, public health  
organization  
May 59

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The Recent Advances in Theory of Heterosis, by  
Nakamura Naohiko. *Gov't USE ONLY 1048*

JAPANESE, per, Ikushugaku Zasshi, Vol XI, No 2,  
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Sci - Agri

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Generalization of the Basic Formula of Relativistic  
Mechanics for Some Non-Inertial Systems of  
Practical Importance, by N. Kalitzin.  
ITALIAN, per, IL Nuova Cimento, Vol. 13, 1959,  
pp 173-185.  
CSIRO/No. 6951

Sci -  
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Types of Rice Blight Fungi, by Dr Hashio Suzuki,  
7 pp. FOR OFFICIAL USE ONLY ID 2166724

JAPANESE, pamphlet, Imochibyō Kin no Keito ni  
Tsuite, 1953.

500th MIG, SIRA  
Tr No 103360

Sci - Biology  
Apr 61

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TT-64-10184

Kinoshita, T. and Fujita, O.  
STUDIES OF INOCULATION. REPT. I. THE IN-  
FLUENCES OF MELTING TEMPERATURE, CARBON,  
SILICON AND PHOSPHOR ON THE EFFECT OF  
INOCULATION. [1963] [25p] (foreign text included)

I. Kinoshita, T.  
II. Fujita, O.  
III. Title: Influence...

9refs  
Order from SLA \$2.60

TT-64-10184

Trans. of Imoco (Japan) 1954, v. 26, no. 11,  
p. 581-588.

(Metallurgy, TT, v. 11, no. 12)

Office of Technical Services

TT-64-10185

Sato, Tadao, Hirooka, Toshio, Teramura, Hideo,  
and Yoshikawa, Tomoji.  
FUNDAMENTAL STUDY ON INOCULATED CAST  
IRON. [1963] [29p] (foreign text included) 6refs  
Order from SLA \$2.60 TT-64-10185

Trans. of Imono (Japan) 1955, v. 27, no. 1, p. 3-11.

DESCRIPTORS: Iron alloys, Castings, Manganese,  
Microstructure, \*Cast iron

(Metallurgy--Ferrous Metals, TT, v. 11, no. 9)

1. Title: Inoculation  
(Metallurgy)
- I. Sato, T.
- II. Hirooka, T.
- III. Teramura, H.
- IV. Yoshikawa, T.

Office of Technical Services



TT-64-10187

Igarashi, Isamu and Ikawa, Katsuya.  
STUDIES ON THE EFFECTS OF COOLING RATE  
AND INOCULATION ON THE SOLIDIFICATION  
PROCESS OF Fe-C-Si-ALLOY. [1963] [15p] (foreign  
text included) 2refs  
Order from SLA \$1.60

TT-64-10187

Trans. of Imono (Japan) 1955, v. 27, no. 3, p. 137-142.

DESCRIPTORS: \*Cast iron, Carbon alloys, Silicon  
alloys, Cooling, Graphite, Eutectics,

(Metallurgy--Ferrous Metals, TT, v. 11, no. 9)

I. Title: Inoculation  
(Metallurgy)  
I. Igarashi, I.  
II. Ikawa, K.

Office of Technical Services

Ikeda, Shigeru, Iwanaga, Hiroshi, and Ono, Hiroshi.  
STUDY ON PINHOLE FORMATION IN GRAY CAST  
IRON. [1963] [25p] (foreign text included) 23refs  
Order from SLA \$2.60      TT-64-10524

Trans. of Imono (Japan) 1956, v. 28, no. 1, p. 11-18.  
(Abstract available)

DESCRIPTORS: \*Iron alloys, \*Castings, Melting,  
\*Additives, Hydrogen, Steam, Molding materials,  
Chemical analysis,

To investigate the pinhole formation in gray cast iron, molten irons were treated as follows, (1) as melt, (2) steam blowing-in, (3) addition of Fe-Si, (4) addition of Al, (5) after addition of Fe-Si or Al, steam blowing-in, (6) addition of Fe<sub>2</sub>O<sub>3</sub> and (7) after Fe<sub>2</sub>O<sub>3</sub> addition, addition of Al. These molten irons were poured into the green sand moulds at 1325°C ~ 1420°C to make test (Metallurgy--Ferrous Metals, TT, v. 11, no. 10)(over)

TT-64-10524

I. Title: Pinhole formation  
I. Ikeda, S.  
II. Iwanaga, H.  
III. Ono, H.

Office of Technical Services

TT-64-10186

Ushiyama, Gosuke, Kita, Arao, and Shimojima,  
Suoji.  
EFFECTS OF INOCULATES ON INOCULATION.  
REPT. 1. Fe-Si, Ca-Si. [1963] [24p] (foreign text  
included) 2refs  
Order from SLA \$2.60                      TT-64-10186

Trans. of Imono (Japan) 1956, v. 28, no. 2, p. 63-70.

DESCRIPTORS: Iron alloys, Castings, Silicon alloys,  
Calcium alloys, Grain structures (Metallurgy).  
\*Cast iron,

(Metallurgy--Ferrous Metals, TT, v. 11, no. 9)

I. Title: Inoculation  
(Metallurgy)  
I. Ushiyama, G.  
II. Kita, A.  
III. Shimojima, S.  
IV. Title: Fe-Si...

Office of Technical Services

Hisatsune, Chiujo and Ueda, Yosisada.  
DESULFURIZATION OF MOLTEN PIG IRON WITH  
THE AID OF CALCIUM CYANAMIDE. [1963] [20p]  
(foreign text included) 19refs  
Order from SLA \$2.60                      TT-64-10520

Trans. of Imono (Japan) 1957, v. 29, no. 6,  
p. 427-435. (Abstract available)

DESCRIPTORS: \*Iron alloys, \*Castings, Desulfuriza-  
tion, Melting, Calcium compounds, Cyanamides,

The slag occurring in the desulfurization of pig iron  
with the aid of calcium salts can be eliminated more  
easily than that occurring in the desulfurization of pig  
iron with the aid of sodium salts. The desulfurizing  
activity of calcium cyanamide is somewhat inferior to  
that of calcium carbide, but it is superior to that of  
lime. However, calcium cyanamide has another merit  
(Metallurgy--Ferrous Metals, TT, v. 11, no. 9) (over)

TT-64-10520

I. Hisatsune, C.  
II. Ueda, Y.

Office of Technical Services

63-18623

Maruyama, Masuteru.  
TREATMENT OF MOLTEN IRON BY ELECTROLYZING  
IT WITH MOLTEN SLAG. REPT. 3. INOCULATION  
OF THE TREATED IRON. [1963] [27]p. (foreign text  
included) 17 refs.

Available from SLA on loan 63-18623

Trans. of Iinono (Japan) 1958, v. 30, no. 1, p. 37-45.

DESCRIPTORS: \*Iron, \*Slags, Melting, Electrolytes,  
Electrochemistry, Graphite, Iron alloys, Castings,  
Electrolysis, Eutectics, Cooling, Microstructure,  
Calcium, Desulfurization.

Kish graphite spheroidized in high carbon cast iron which  
was treated by electrolyzing molten slag, but eutectic  
graphite incompletely coagulated and precipitated in kish  
graphite, so that the treated iron had the mixed struc-  
ture of eutectic fine graphite and pseudo flaky graphite.  
(Metallurgy--Structural, TT, v. 10, no. 8) (over)

I. Maruyama, M.  
II. Title: Inoculation

Office of Technical Services

Effect of Vacuum Melting on Mechanical Properties  
of Cast Iron, by M. Kikuchi, I. Aizawa.

JAPANESE, JOUR. IRON, Vol XXI, No 8, 1958,  
pp 231, 232.

EB 4312

Sci. - Engin

Feb 60

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Effect of Coke Size in Cupola Operation on  
Graphite Structure of Castings, by H. Kayama,  
et al. UECI

JAPANESE, per, Isone, No 4, 1958, pp 253,  
254.

EB 4811

118,748

Sci - Fuels

Jun 60

TT-64-10578

Nakamura, Kokichi and others.  
STUDY ON HIGH-STRENGTH CAST IRON. REPT. 6  
RELATION BETWEEN THE STRENGTH OF CAST  
IRON AND THE STRUCTURE THEREOF, AS VIEWED  
ESPECIALLY FROM THE POINT OF GRAPHITE CON-  
TAINED IN IT. [1963] [7p] (foreign text included)

5refs  
Order from SLA \$1.10                      TT-64-10578

Trans. of Imono (Japan) 1958, v. 30, no. 4, p. 260-261.

DESCRIPTORS: \*Cast iron, \*Metallography, Graphite,  
\*Tensile properties, Grain structure.

(Metallurgy--Ferrous Metals, TT, v. 11, no. 9)

I. Nakamura, K.  
II. Title: Relation ...

Office of Technical Services



Study of Vacuum Degassing Process - Report No 1,  
Experimental Set-Up and Results on MF Castings,  
by Ch. Taguchi, et al.

JAPANESE, per, Imono, Vol XXX, No 4, 1958,  
pp 281, 282.

HB 4311

Sai - Chen

Jan 60

106, 203

TT-64-10530

Maruyama, Masuteru and others.  
EFFECTS OF CALCIUM ON THE DECOMPOSITION  
RATE OF PEARLITE. [1963] [7p] (foreign text  
included)  
Order from SLA \$1.10                      TT-64-10530

1. Title: Decarburization  
I. Maruyama, M.

Trans. of Imono (Japan) 1958, v. 30, no. 9, p. 667-668.

DESCRIPTORS: \*Pearlite, \*Decomposition, \*Calcium,  
Iron alloys, Carbon alloys, Silicon alloys, Castings,  
Quantitative analysis, Carbonization, Calcium com-  
pounds, Silicides, Lead, High temperature research.

(Metallurgy, TT, v. 11, no. 9)

Office of Technical Services

TT-64-10533

Ototani, Tohei, Maruyama, Masuteru, and Tokunaga,  
Youichi.  
VARIOUS TREATMENTS OF CAST IRON MELT  
CONTAINING MOLYBDENUM AND COPPER. [1963]  
[19p] (foreign text included) Srefs  
Order from SLA \$1.60 TT-64-10533

I. Ototani, T.  
II. Maruyama, M.  
III. Tokunaga, Y.

Trans. of Imono (Japan) 1958, v. 30, no. 10,  
p. 792-798. (Abstract available)

DESCRIPTORS: \*Iron alloys, \*Castings, \*Additives,  
Molybdenum alloys, Copper alloys, Melting, Micro-  
structure, Graphite, Hardness.

The influences of various treatments, such as inocula-  
tion with ferrosilicon or calciumsilicide, vacuum  
melting, addition of  $Fe_3O_4$ , and magnesium treatment,  
on Mo-Cu cast iron were investigated. It was com-  
firmed that inoculations showed a tendency to promote  
(Metallurgy--Ferrous Metals, TT, v. 11, no. 10) (over)

Office of Technical Services

TT-64-10531

Maruyama, Masuteru and Chida, Hiroyuki.  
EFFECTS OF CALCIUM ON THE CAST IRON  
MOLTEN UNDER VACUUM. [1963] [23p] (foreign  
text included) 12refs  
Order from SLA \$2.60      TT-64-10531

I. Maruyama, M.  
II. Chida, H.

Trans. of Imono (Japan) 1958, v. 30, no. 11,  
p. 880-886. (Abstract available)

DESCRIPTORS: \*Iron alloys, \*Castings, \*Additives,  
Calcium, Melting, Vacuum furnaces, Microstructure,  
Chemical analysis.

Unlike Mg, Ca is one of the graphitizing agents. The  
graphitizing action of Ca is due to its direct effects and  
not due to the indirect ones caused by deoxidation  
thereby. When Ca addition is employed for the purpose  
of bringing about graphite spheroidization in low-  
carbon pig iron, it is desirable to keep the silicon con-  
tent of the iron as low as possible so long as it does not  
(Metallurgy--Ferrous Metals, TT, v. 11, no. 10)(over)

Office of Technical Services

TT-64-10545

Sato, Kaoru and Yamamoto, Harutoshi.  
ON THE AGING DECAY OF THE EFFECT OF  
INOCULATION. [1963] [18p] (foreign text included)

3refs

Order from SLA \$1.60

TT-64-10545

Trans. of Imono (Japan) 1959, v. 31, no. 1, p. 20-25.  
(Abstract available)

DESCRIPTORS: \*Iron alloys, \*Castings, \*Additives,  
Melting, Aging (Materials), Graphite, Microstructure,  
Mechanical properties.

Molten iron of 100Kg was inoculated by 0.25 to 0.30%  
of calcium silicide. The depth of chill after the inoc-  
ulation was not changed for about 30 minutes, and  
thereafter it increased gradually with the lapse of time.  
The greater the chill depth of original iron was, the  
sooner the recovery of the chill became. The increase  
of mechanical properties by the inoculation was almost  
(Metallurgy--Ferrous Metals, TT, v. 11, no. 10)(over)

1. Title: Inoculation
- I. Sato, K.
- II. Yamamoto, H.

Office of Technical Services

Hisatsune, Chituyo.  
CAST IRON AS MODIFIED BY  $\text{CaCN}_2$ . [1963] [36p]  
(foreign text included) Srefs  
Order from SLA \$3.60      TT-64-10188

Trans. of Imono (Japan) 1959, v. 31, no. 5, p. 498-508.  
(Abstract available)

DESCRIPTORS: \*Iron alloys, \*Castings, Calcium compounds, Cyanamides, Nitrogen, Mechanical properties.

The mechanical properties of grey cast iron were improved by the addition of  $\text{CaCN}_2$  to molten metals, of which the nitrogen content, especially insoluble nitrogen, was increased to about 100 ppm. The mechanism for modification of  $\text{CaCN}_2$  is discussed and some processing examples for these types of cast iron are described.  
(Author)

(Metallurgy--Ferrous Metals, TT, v. 11, no. 9)

TT-64-10188

I. Hisatsune, C.

Office of Technical Services

Effect of Treatment of Malleable Cast Iron with  
Calcium Silicide, by M. Maruyama, M. Iro.  
JAPANESE, per, Irons, Vol 32, No 4, Apr 1960,  
pp 261-267.  
HB 5459

FE-Japan  
Sci/M&M  
May 65

280,718

Caracteristiques d'exploitation du cubilot basique,  
by S. Yamashita,

JAPANESE to FRENCH, per, Imono, Vol XXXII, No 4,  
1960, pp 268-279.

CDS I.T.3426

Sci

Nov 61



TT-64-10577

Nakamura, Kokichi and Kawasaki, Shigeji.  
INOCULATION OF GRAY CAST IRON: ON THE COM-  
POSITION OF THE MOLTEN METAL, VOLUME OF  
INOCULANT AND MASS EFFECT. [1963] 10p (foreign  
text included) 4refs  
Order from SLA \$1.10 TT-64-10577

1. Title: Inoculation  
(metallurgy)
- I. Nakamura, K.
- II. Kawasaki, S.
- III. Title: On the ...

Trans. of Imono (Japan) 1960, v. 32, no. 9, p. 35-37.

DESCRIPTORS: \*Cast iron, Crystallization, Calcium  
compounds, Silicon compounds, Castings, Tensile  
properties, Hardness, Grain structure (Metallurgy).

(Metallurgy--Ferrous Metals, TT, v. 11, no. 9)

Office of Technical Services

Measurement of thermo-electromotive force in cast  
iron and its application to the rapid determination of  
silicon in cast iron, by M. Ibaraki.  
JAPANESE, per, Imono, No 33, 1961, pp 24-718  
CRL/T 1649

Sci -  
Sep 67

340,304

The S-Curve of Molybdenum Nickel Cast Iron  
Containing Nodular Graphite, by Y. Tokunaga.  
JAPANESE, per, Imono, Vol XXXIII, No 3, 1961,  
pp 190-~~2~~201.  
BISI 3652

Sci - ~~KMX~~ M/M  
Aug 64

265,433

Takeuchi, E.  
THE WEAR PHENOMENON OF HEAT-TREATED  
TITANIUM CAST IRON WITH EUTECTIC GRAPHITE  
STRUCTURE. [1962] 9p.  
Order from ATS \$18.95                      ATS-37N58J

Trans. of Imono (Japan) 1961, v. 33, no. 4, p. 271-277.

DESCRIPTORS: \*Cast iron, \*Titanium, Castings, Heat  
treatment, Friction, Structures, Graphite, Eutectics

(Metallurgy, TT, v. 7, no. 11)

62-12804

I. Takeuchi, E.  
II. ATS-37N58J  
III. Associated Technical  
Services, Inc., East  
Orange, N. J.

ATS JJ-4120

Office of Technical Services

Experimental Studies on the Relationship Between  
the Drying Depth of a Mould and the Thickness of  
the Steel Casting, by T. Mitsui.

JAPANESE, per, Imono, Vol XXXIV, 1962, pp 601-610.

\*BISI E 5121

Sci - M/N  
Feb 63

High Temperature Properties of the  
Exothermic and Self-Hardening Mould  
with Sodium Silicate and Calcium  
Silicon, by T. Nishigama.  
JAPANESE, per, Imono, Vol 35,  
Apr 1963, pp 220-229.  
BISI 3984

Sci/MQ15  
Aug 65

284,699

The Relation Between Oxygen Blowing and  
Carbon Content and Gases in Molten Cast  
Steel During Oxidizing Period, by  
Y. Miyagawa, H. Anami.  
JAPANESE, per, Imono, Vol 36, Jun 1964,  
pp 533-544.  
BISI 4388

CRL/T. 2293

FE-Japan  
Sci/MGM  
Jan 66

293,215

Fulfilling the Socialist Laws of Distribution  
in Raw Wood Production, by Kim Ho-song, 12 pp.  
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