

(NY-3984).

Methods of Calculating the Major Technical ~~and~~
and Economic Targets of Open-Hearth Furnace, 7 pp.

CHINESE, per, Yeh-chin Pao, No 31, 31 Jul 1959,
pp 38, 39.

JPRS 2717

119,375

FE - China

Econ - Metallurgical Industry

Jun 60

(DC-3667)

Methods of Calculation for the Ore Dressing
Indicators With Regard to Ferrous and Non Ferrous
Metals, 3 pp.

CHINESE, per, Yeh-chin Pao, No 32, 7 Aug 1959,
pp 38, 39.

JPRS 3444

FE - China

Econ - Metallurgy

Jul 60

119,825

(DC-3567)

Carry Out Basic Construction of the Metallurgical Industry at a Rapid Pace, 5 pp.

CHINESE, per, Yeh-chin Pao, No 41, 16 Oct 1959, PP 3-6.

JPRS 3444

FE - China

Econ - Metallurgy

Jul 60

119,826

(DC-3667)

Ensure the Early Operation of the More Than 200
Projects by Raising Work Enthusiasm, 3 pp.

CHINESE, per, Yeh-chin Pao, No 41, 16 Oct 1959,
pp 8-10.

JPRS 3444

FE - China

Econ - Metallurgy

Jul 60

119,818

(DC-3667)

Terms of Contests Among Metallurgical Industry
Construction Units, 5 pp.

CHINESE, per, Yeh-chin Pao, No 41, 16 Oct 1959,
pp 10-13.

JPRS 3444

FE - China

Econ - Metallurgy

Jul 60

119,819

(DC-3667)

A Plant in the Northwest, 2 pp.

CHINESE, per, Yeh-chin Pao, No 41, 16 Oct 1959,
pp 30, 31.

JPRS 3444

FE - China

Econ - Metallurgy

Jul 60

(DC-3667)

Hunan Metallurgical Plants, by Chao Ch'ao-shan, 1 p.

CHINESE, per, Yeh-chin Pao, No 41, 16 Oct 1959,
pp 33, 34.

JPRS 3444

FE - China

Econ - Metallurgy

Jul 60

(DC-3667)

Battle for More and Better Ores, 2 pp.

CHINESE, per, Yeh-chin Pao, No 41, 16 Oct 1959,
pp 35, 36.

JPRS 3444

FE - China

Econ - Metallurgy

Jul 60

(DC-3667)

Must Provide Enough Ferrous Ores for the Furnaces, 1 p.

CHINESE, per, Yeh-chin Pao, No 41, 16 Oct 1959,
pp 38, 39.

JPRS 3444

FE - China

Econ - Metallurgy

Jul 60

(DC-3667)

Indices for Small Coke Ovens Approaching Large Coke
Ovens, 2 pp.

CHINESE, per, Yeh-chin Pao, No 42, 23 Oct 1959,
pp 38, 39.

JPRS 3444

FE - China

Econ - Metallurgy

Jul 60

(DC-3667)

Mobilization of the Mines for Big Contests, 3 pp.

CHINESE, per, Yeh-chin Pao, No 41, 16 Oct 1959,
pp 40-42.

JPRS 3444

FE - China

Econ - Metallurgy

Jul 60

119,820

{DC-3667}

Rational Technical Improvements on Simple Coke Ovens
4 pp.

CHINESE, per, Yeh-chin Pao, No 42, 23 Oct 1959,
pp 40-42.

JPRS 3444

FE - China

Econ - Metallurgy

Jul 60

119,821

(NY-3984).

Hsiang-shan Iron Mine Developed in the Course of
the Big Leap Forward, 2 pp.

CHINESE, per, Yeh-chin Pao, No 44, 6 Nov 1959,
p 47.

JPRS 2717

FE - China
Econ - Metallurgical Industry
Jun 60

(NY-3984).

A Good Design Combining Modern With Native Methods, 1 p.

CHINESE, per, Yeh-chin Pao, No 44, 6 Nov 1959, p 50.

JPRS 2717

FE - China

Econ - Metallurgical Industry

Jun 60

(NY-3984).

Important Measure for Increase of Production From
Open Hearth Furnaces, 9 pp.

CHINESE, per, Yeh-chin Pao, No 44, 6 Nov 1959,
pp 62-64.

JPRS 2717

FE - China
Econ - Metallurgical Industry
Jun 60

118,391

(NY-3984).

Raise High the "Multi-~~Rear~~ Rapid-Rolling" Red
Banner and March Forward, 8 pp.

CHINESE, per, Yeh-chin Pao, No 44, 6 Nov 1959,
pp 64-66.

JPRS 2717

FE - China
Econ - Metallurgical Industry
Jun 60

118,392

(NY-3984).

Vigorously Develop Technological Revolution,
Intensify Working of Non-Ferrous Minerals, 8 pp.

CHINESE, per, Yeh-chin Pao, No 44, 6 Nov 1959, pp 69-71.

JPRS 2717

FE - China
Econ - Metallurgical Industry
Jun 60

118,385

(DC-3667)

Native Copper Smelter at Hsueh-shan, 2 pp.

CHINESE, per, Yeh-chin Pao, No 45, 13 Oct 1959,
p 50.

JPRS 3444

FE - China

Econ - Metallurgy

Jul 60

(DC-3667)

Leap Forward in Electric Furnace Production, 3 pp.

CHINESE, per, Yeh-chin Pao, No 45, 13 Oct 1959,
pp 58-60.

JPRS 3444

FE - China

Econ - Metallurgy

Jul 60

119,814

(DC-3667)

Improve Mill Recovery and Raise Concentrate Quality,
4 pp.

CHINESE, per, Yeh-chia Pao, No 45, 13 Oct 1959,
pp 60-62.

JPRS 3444

FE - China

Econ - Metallurgy

Jul 60

119,815

(DC-3667)

Do Well in Small Aluminum Plants to Accelerate the
Development of the Aluminum Industry, 3 pp.

CHINESE, per, Yeh-chin Pao, No 46, 20 Nov 1959,
pp 28-31.

JPRS 3444

FE - China

Econ - Metallurgy

Jul 60

119, 816

(DC-3667)

Grestly Reduce Aluminum Ingot Production, 4 PP.

CHINESE, per, Yeh-chin Pao, No 46, 20 Nov 1959;
PP 31, 38, 39.

JPRS 3444

FE - China

Econ - Metallurgy

Jul 60

119,810

(DC-3667)

Principal Measures Taken in Attaining High
Production, Good Quality, Low Consumption, and Long
Life in Small Aluminum Plant Operations, 5 pp.

CHINESE, per, Yeh-chin Pao, No 46, 20 Nov 1959,
pp 35-38.

JPRS 3444

FE - China

Econ - Metallurgy

Jul 60

119,817

(NY-3984).

Current Tasks in Capital Construction, 6 pp.

CHINESE, per, Yeh-chin Pao, No 47, 27 Nov ~~1958~~ 1959,
pp 19, 20.

JPRS 2717

FE - China

Econ - Metallurgical Industry

Jun 60

118,386

(NY-3984).

Overall Big Leap Forward in Metallurgical Construction,
2 pp.

CHINESE, per, Yeh-chin Pao, No 47, 27 Nov 1959,
pp 22, 23.

JPRS 2717

FE - China
Econ - Metallurgical Industry
Jun 60

(NY-3984).

Mines Serving Open Hearth Furnaces Must Continue the
Big Leap Forward in 1960, 4 pp.

CHINESE, per, Yeh-chin Pao, No 47, 27 Nov 1959,
pp 27, 21.

JPRS 2717

FE - China
Econ - Metallurgical Industry
Jun 60

118,387

(NY-3984).

Small-Scale Iron and Steel Integrated Enterprises
Have Done Many Things for Rural Areas During Great
Leap ~~Forward~~ Forward, 10 pp.

CHINESE, per, Yeh-chin Pao, No 47, 27 Nov 1959,
pp 32-34.

JPRS 2717

FE - China
Econ - Metallurgical Industry
Jun 60

118,388

(NY-3984).

"All Red Over" In Small Blast Furnaces in Yunnan,
3 pp.

CHINESE, per, Yeh-chin Pao, No 48, 4 Dec 1959, pp 18, 19.

JPRS 2717

FE - China
Econ - Metallurgical Industry
Jun 60

118,381

(NY-3984).

Great Future Ahead of Converter Steel Furnaces,
by Yu Ching-Sheng, 13 pp.

CHINESE, per, Yeh-chin Pao, No 48, 4 Dec 1959,
pp 26-29.

JPRS 2717

FE - China

Econ - Metallurgical Industry

Jun 60

118,382

(NY-3984).

Non-Ferrous Small Modern Plants are Flourishing.
3 pp.

CHINESE, per, Yeh-chin Pao, No 49, 12 Dec 1959,
p 32.

JPRS 2717

119,374

FE - China
Econ - Metallurgical Industry
Jun 60

(NY-3984).

Hupei Province Energetically Develops Non-Ferrous Metals Industry, 2 pp.

CHINESE, per, Yeh-chin Pao, No 49, 12 Dec 1959, p 33.

JPRS 2717

FE - China

Econ - Metallurgical Industry

Jun 60

(NY-3984).

Shenyang Achieves Double Leap Forward in Output
and Quality of Non-ferrous Metals, 1 p.

CHINESE, per, Yeh-chin Pao, No 49, 12 Dec 1959,
p 34.

JPRS 2717

FE - China

Econ - Metallurgical Industry

Jun 60

(NY-3984).

Szechwan Copper, Lead and Zinc Output Increases,
3 pp.

CHINESE, per, Yeh-chin Pao, No 49, 12 Dec 1959,
p 34.

JPRS 2717

FE 0 China
Econ - Metallurgical Industry
Jun 60

118,383

(NY-3984).

Difficulties Overcome in Construction of Tangshan'
Aluminum Plant, 4 pp.

CHINESE, per, Yeh-chin Pao, No 49, 12 Dec 1959,
pp 35, 36.

JPRS 2717

FE - China
Econ - Metallurgical Industry
Jun 60

118,384

(NY-3984).

Prepare Well for the "Red All Over" at the Very
Start of 1960 in Non-Ferrous Metals Industry,
2 pp.

CHINESE, per, Yeh-chin Pao, No 51, 28 Dec 1959,
p 32.

JPRS 2717

FE - China
Econ - Metallurgical Industry
Jun 60

(NY-3984).

Auxiliary Materials Mines Must Also Continue
Great Leap Forward, 2 pp.

CHINESE, per, Yeh-chin Pao, No 51, 23 Dec 1959,
p 34.

JPRS 2717

FE - China
Econ - Metallurgical Industry
Jun 60

(DC-4086)

Developments in Nonferrous Ore-Dressing Plants,
6 pp.

CHINESE, per, Yeh-chin pao, No 3, 18 Jan 1960,
pp 3-7 (excerpts).

JPRS 6174

FE - China
Econ
Nov 60

133,507

(DC-4086)

Principal Technical Measures to Carry Out the
Construction of Small Mine and Pressing Plants
With Speed and Low Investment and for High
Production of High Grade [Nonferrous Concentrates]
at Low Cost, 9 pp.

CHINESE, per, Yeh-chin pao, No 3, 18 Jan 1960,
pp 8-11.

JPRS 6174

FE - China
Econ
Nov 60

133,508

(DC-4086)

Build Small Tungsten Beneficiation Plants to
Produce More Tungsten for the State, 4 pp.

CHINESE, per, Yeh-chin pao, No 3, 18 Jan 1960,
pp 19, 20.

JPRS 6174

FE - China
Econ
Nov 60

133,502

(DC-4086)

#35

(DE-4086)

The Best Policy is to Manufacture Your Own Ore
Dressing Agents," by Teng Ch'ing-nien,

CHINESE, per, Yeh-chin Pao, No 3, 18 Jan 1960,
pp 39.

*JPRS

FE - China

Econ - Metallurgy

7 Jun 60
9

(NY 4238)

Engineering Design Matching Sets, 7 pp.

CHINESE, ger, Yeh-chin Pao, No 5, 4 Feb 1960,
pp 9, 10.

JPRS 5641

FE - China

Reon

133,600

EOV 60

REF-4210

Comparison of Technical and Economic Data on
Iron Ferrous Metal Mining in 1959, 6 pp.

CHINESE, per, Yeh-chin Pao, No 6, 11 Feb 1960,
pp 43, 44.

JPRS 5641

FE - China
Econ
Nov 60

133,601

#35

(NY-H238)

Metallurgy in China,

CHINESE, per, Yeh-chin Pao, No ~~5~~ 6, 7, Feb 1960,
(Extracts).

*JPRS

FE - China

Econ - Metallurgical Industry

25 May 60

(DC-4000)

Major Achievements in Mine Construction by the
Metallurgical Industry During Last Two Years,
8 pp.

CHINESE, per, Yeh-chin pao, No 13, 4 Apr 1960,
pp 21-24.

JPRS 6174

FE - China
Econ
Nov 60

133,503

(NY-502/).

The Development of Using Converters to Refine Steel Is
A Long-sighted Policy, /

CHINESE, per, Yeh-chin Pao, No 190, 18 Apr 1960,
pp 14-16.

*JPRS

FE - China

Econ - Metallurgy

15 Sep 60

(NY-5021).

A Worthy Guarantee, 3 pp.

CHINESE, per, Yeh-chin Pao, No 189, 11 Apr 1960,
pp 39-40.

*JPRS

FE - China

Econ - Metallurgy

15 Sep 60

(NY-5021).

Summon All Energy to Fulfill The Second Quarter
Quota of Ore Production, *pp*

CHINESE, per, Yeh-chin Pao, No 189, 11 Apr 1960,
pp 28-29.

*JPRS *5742*

FE - China

Econ - Metallurgy

15 Sep 60

(NY-502/).

Comparative Technical and Economic Indexes of March
Iron and Steel Production, 377

CHINESE, per, Yeh-chin Pao, No 189, 11 Apr 60, pp 14-
15.

*JPRS 5744

FE - China

Econ - Metallurgy

15 Sep 60

35

(DC-4220).

Metallurgy in China,

CHINESE, np, Yeh-chin Pao (~~Metallurgical News~~),
No 192, 193, 194, 195; 1, 3, 7, 10 May 1960,
pp 1, 2, 3, 4.

*JPRS

FE-China

EC and
Metallurgy

26 Jul 60

(NY-5021).

The Ministry of Metallurgy Decides to Promote A
Batch of Important Advanced Experience, 2 pp.

CHINESE, per, Yeh-chin Pao, No 196, 13 May 1960,
p 1.

*JPRS 5744

FE - China

Econ - Metallurgy

15 Sep 60

(NY-5021).

Five 1,000 Meters Geological Drilling Provinces
Appear in the Nation, *See*

CHINESE, per, Yeh-chin Pao, No 196, 13 May 1960,
p 3.

✓ *JPRS 5047

FE - China

Econ - Metallurgy

15 Sep 60

(NY-5021)

The Great Change in Metallurgical Industry in
Kirin, by Yeh Ho-yu, 4 PP.

CHINESE, per, Yeh-chin Pao, No 196, 13 May 1960,
p 4.

JPRS 5744

FE - China

Econ

Jan 61

138,621

To Forget the Enemy is to Forget the Revolution,

5 pp.

CHINESE, per, Yeh-chan Pao, No 12/13, Mar 1968.

JPRS 46220

FE-Com China

Pol

Sep 68

365,512

R-2539

(NY-2977).

Economic Geography of the Yen-Pien Korean
Autonomous Chou, by Li Chen-ch'uan, 131 pp.

CHINESE, monograph, Yen-pien Chao-hsiao-tau Tzu-chih
Chou Ching-chi Ti-i-i, Shanghai, Apr 1957, pp 1-84.

JPRS-2019-N

FE - China
Econ - Geog
Dec 59

101,449

Strength Testing of After-Burner Chamber.

JAPANESE, pamphlet, Yoatsushitsu no Kyodo Shihan,
publ by Technical Research Institute, Rpt No 370,
30 Mar 1957, 78 pp. (ZDC 29 Nov 1957)

6004th AISE Tr 8-3B-101

Sci - Engineering
Nov 57

54, 975

Yamaguchi, G.
ÉTUDE SUR LES ABRASIFS, I. LA COMPOSITION
CHIMIQUE ET LE POIDS SPECIFIQUE DES GRAINS
(Studies on Abrasive Materials. I. Chemical Con-
stituents and Specific Gravity of Grain), 10p. (foreign
text included) CNRS-VI 97.
Order from OTS, ETC or CNRS \$1.10 TT-62-28729

Trans. in French of [Yogyo Kyokaishi] (Japan)
1943, v. 51, p. 423-425.

DESCRIPTORS: *Abrasives, Chemical compounds,
Powders, Density.

(Materials, TT, v. 11, no. 8)

TT-62-28729

- I. Yamaguchi, G.
- II. CNRS-VI 97
- III. Centre National de la Recherche Scientifique, Paris

Office of Technical Services
European Translations Centre

DD

TT-65-13772

Field 11B

Nagai, S.; Imaoka, M.
STUDIES ON HIGH-ALUMINA MINERALS. REPORT NO. 3.
SOLUBILITY OF SILICA-ALUMINA MINERALS IN CAUSTIC
SODA. 12p (foreign text included).
Order from SLA: \$1.60 as TT-65-13772

Trans. of Yogyo Kyokaiishi (Japan) v52 p267-9 1944.

MR 684

Segawa, Kiyoshi.
THE REACTION SPEED OF SOLIDS, STUDIED BY
THERM ANALYTICAL METHODS. I. STUDY OF
METHOD. II. BASIC STUDY OF SPEED OF DIFFU-
SION REACTION. III. REACTION OF CaO a AND
SiO₂. 19p (3 figs 3 refs tables omitted).
Order from SLA \$1.10

TT-64-18297

Trans. of [Yogyo Kyokaiishi] (Japan) 1948, v. 56
[p. 7-10, 59-62, 99-101].

(Materials--Ceramics, TT, v. 12, no. 7)

TT-64-18297

I. Segawa, K.

Office of Technical Services

Mechanism of Adherence of Enamel to
Steel Surface, Parts 3, 4, 5, by Megumi
Tashiro.
JAPANESE, per, Yogyo Kyokai Shi,
Vol XLVIII, pp 51-54, 1950
•AEC

Sci-M&M
Sept 63

Studies on the Mechanism of Adherence
of Enamel on Steel Surface Parts III, IV,
V, by Megumi Tashiro.
JAPANESE, per, Yogyo Koykai Shi, Vol LVII,
1949, pp 124, 125; 149, 150; Vol LVIII, 1950,
pp 51-54. 9232013
AEC-UCRL-Tr-1278

Sci - Chem
Mar 66

296,494

Studies on Molding Compounds from Calcined
Gypsum and Synthetic Resins. Part 1, by
S. Nagai.
JAPANESE, per, Yogyo Kyokai Shi, Vol 59,
No 658, 1951, pp 146-150.
ATS-JS-221

Sci-Chem
Mar 70

403,888

62-14534

Maruyama, Relzo and Kawakubo, Syoitiro.
STUDIES ON CHROMIUM CONTAINING GLASS.
[1962] [14]p. (foreign text included).
Order from SLA \$1.60

62-14534

Trans. of Yogyo Kyokaiishi (Japan) 1951, v. 59,
no. 664, p. 482-485.

DESCRIPTORS: *Glass, *Chromium compounds,
*Oxides, Density, Thermal expansion, Water,
Resistance.

Effects of the addition of chromium oxide on the prop-
erties of glass were studied with three kinds of base
glass, determining specific gravities, thermal ex-
pansions, and chemical durabilities. Maximum
amounts of chromium oxide with which clear glass
could be obtained were different by different kinds of
base glass, being 8.5 weight percent of chromium
oxide in a soda-lime-silica glass and 5 percent in a
soda-silica glass. (Author)
(Materials--Ceramics, TT, v. 8, no. 5)

I. Maruyama, R.
II. Kawakubo, S.

Office of Technical Services

Ohno, Y.
STUDIES ON LIMESTONE, LIME, AND SLAKED
LIME. IV. CARBONATION OF LIME MILK. Jan 61,
6p. 5 refs.
Order from SLA \$1.10

61-10753

Trans. of Yogyo Kyokaiishi (Japan) 1952, v. 60,
p. 548-552.

DESCRIPTORS: *Calcite, Separation, *Carbonization,
*Calcium compounds, *Oxides, *Carbonates, *Hydrox-
ides, Carbon dioxide, Absorption.

(Chemistry--Physical, IT, v. 6, no. 10)

61-10753

I. Ohno, Y.
II. Title: Carbonation ...

000004

Office of Technical Services

Studies of Fluoride Glass. II. The Systems
 $\text{BaF}_2\text{-AlF}_3\text{-NaF}$, KF , CaF_2 (BaF_2 , SrF_2 , BaF_2), by K.
Inaoka, 6 pp.

JAPANESE, Rep, Kogyo Ryokan Shi, Vol 1001, 1957,
pp 24-27.

AKC NP-tr-296

Jan 60

105,598

A Study of the Oxidation of Pure Silicon
Carbide Powders, by H. Suzuki.
JAPANESE, per, Yogyo Kyokai Shi, Vol LXV,
1957, pp 88-93.
NASA TT F-10,211

U. S. GOVERNMENT USE ONLY

Sci-Chem

Aug 66

309,654

62-26465

Sakka, S.
EFFET DU RECHAUFFEMENT SUR LA RÉSISTANCE
MÉCANIQUE DES FIBRES DE VERRE (Effects of Re-
heating on the Strength of Glass Fibers). 6p. 7 refs.
FX-1101.
Order from OTS, ETC or CNRS \$0.80 62-26465

Trans. in French of Yogyo Kyokaiishi (Japan) 1957,
v. 65, p. 190ff.

DESCRIPTORS: *Glass textiles, Mechanical properties,
Heating, *Fluorides, Hydrogen compounds,
Tensimeters.

(Materials--Textiles, TT, v. 10, no. 7)

- I. Sakka, S.
- II. FX-1101
- III. Centre National de la
Recherche Scientifique
(France)

Office of Technical Services

Sakka, S.
EFFET DU RÉCHAUFFEMENT SUR LA RÉSISTANCE
MÉCANIQUE DES FIBRES DE VERRE (Effect of Re-
heating on the Strength of Glass Fibers). 6p. 7 refs.
CNRS-VI-747.

Order from OTS, ETC or CNRS \$0.80 TT-62-26465

Trans. in French of Yogyo Kyokaishi (Japan) 1957,
v. 65, p. 190-192.

Trans. in English available from SLA mi\$1.80,
ph\$1.80 as 61-10157.

DESCRIPTORS: *Glass textiles, Mechanical properties,
Heating, Structures, *Fluorides, Hydrogen compounds,
Surfaces, Tensimeters.

(Materials--Textiles, TT, v. 11, no. 7)

TT-62-26465 rev.

- I. Sakka, S.
- II. CNRS-VI-747
- III. Centre National de la Recherche Scientifique, Paris

Office of Technical Services
European Translation Centre

Thermal Diffusivity and the Coefficient of
Convective Heat Transfer in the ~~Lower~~ Lower
Temperature Range (smoking period) During the
Burning of Fireclay Brick. Part 1. Studies on
the Firing Schedule for Burning Fireclay Bricks.
K. Terada, W. M. Wakamatsu, et al.

JAPANESE, ~~pt.~~ Yogyo Kyokai Shi, Vol LXVI, 1958,
p 110.

B E Ceram R.A. 471

Sci
Jan 63

63-18618

Hara, Masayoshi, Yamamoto, Tokuji, Konishi, Akio,
and Arimori, Tuyooshi.

THE ELECTROCHEMICAL STUDY OF THE COR-
ROSION OF THE REFRACTORY BY MOLTEN GLASS.

I. ON THE ELECTROMOTIVE FORCES GENERATED
BETWEEN REFRACTORY OXIDES AND GLASSES.

[1963] [25p] (foreign text included) 22refs

Order from SLA \$2.60

63-18618

Trans. of Yogyo Kyokaiishi (Japan) 1959, v. 67, no. 1,
p. 20-27.

DESCRIPTORS: *Glass, Melting, Oxides, Electro-
chemistry, Refractory materials, Corrosion, Elec-
trodes, Clay minerals.

(Materials--Ceramics, TT, v. 10, no. 10)

1. Title: Electromotive
force

I. Hara, M.

II. Yamamoto, T.

III. Konishi, A.

IV. Arimori, T.

V. Title: On the ...

Office of Technical Services

63-14071

Naruse, Akira; Shimura, Fujio, and Watanabe, Akira.
INVESTIGATIONS INTO THREE-DIMENSIONAL FLOW
OF THE THROAT CURRENT IN A MODEL THROAT.
Rept. 3 of Studies on the Throat of a Glass Melting
Tank. [1963] [34]p. (foreign text included) 5 refs.
Order from SLA \$3.60 63-14071

Trans. of [Yogyo Kyokaiishi] (Japan) 1959, v. 67, no. 3,
p. 85-95.

DESCRIPTORS: *Glass, *Melting, *Fluid flow, Glycer-
ols, Velocity, Models (Simulation), Heat transfer,
Equations, Test equipment, Tests.

See also 60-18542

(Materials--Ceramics, TT, v. 10, no. 3)

1. Title: Throat current theory
2. Title: Glass furnaces
1. Naruse, A.
- II. Shimura, F.
- III. Watanabe, A.
- IV. Title: Studies ...

Office of Technical Services

Sawai, Dutarō; Kunugi, Masanaga, and others.
STUDIES ON THE CHARACTERISTICS OF CONVECTION CURRENT OF MOLTEN GLASS BY MEANS OF MODEL TECHNIQUES. [1963] [36p. (foreign text included) 7 refs.
Order from SLA \$3.60

63-14073

Trans. of Yogyo Kyokai (Japan) 1959. v. 67,
p. 301-311.

DESCRIPTORS: *Glass, *Furnaces, *Thermodynamics, Fluid flow, Heat transfer, Simulation, Model tests.

The authors carried out a series of model experiments using glycerin in place of the molten glass. From the results obtained they pointed out some important characteristics of the convection current. Some of them are: (1) The change of heat input causes the proportional change of temperature gradients both in vertical (Materials--Ceramics, TT, v. 10, no. 5) (over)

63-14073

I. Sawai, I.
II. Kunugi, M.

Office of Technical Services

Studies on the Factors Affecting the Workability
(Fluidity) of Resins Used for the Injection
Molding of Ceramics. Studies on the Injection
Molding of Ceramics. Part I, by Asao NOTEKI,
40 pp.
JAPANESE, per Yogyo Kyokai Shi, Vol 67, 1979,
pp 387-399.
AEC SC-T-65-768

327,946

Sci - Materials
Jul 67

A Study on Various Factors in the Heating Treatment of the Injection Molded Ceramic Articles.
Studies on the Injection Molding of Ceramics.
Part II, by Asao MOTOKI, 31 pp.
JAPANESE, per, Yogyo Kyokai Shi, Vol 68, 1960,
pp 11-21.
AEC SC-T-65-0771

327,951

Sci - Materials
Jul 67

Properties of High Alumina Porcelain Produced
by Injection Molding Studies of the Injection
Molding of Ceramics. Part III, by Asao MOTEKI,
28 pp.
JAPANESE, par, Yogyo Kyokai Shi, Vol 68, 1960,
pp 23-32.
ABC BC-T-65-0770

327,945

Sci - Materials
Jul 67

Studies on the Devitroceraam of the
System $\text{CaO} \cdot \text{TiO}_2 \cdot \text{SiO}_2 \cdot \text{Li}_2\text{O} \cdot \text{Al}_2\text{O}_3 \cdot$
 $4\text{SiO}_2 \cdot 11_2\text{O} \cdot 2\text{SO}_2$, by T. Moriya, T.
Sakaïno, H. Saiño, K. Takizuwa.
JAPANESE, per, Yogyo Kyokai Shi, Vol 68,
No 4, 1960, pp. 103-9.
NTC 69-10546-11B

Sci-Mat
July 69

386,749

19

Tashiro, Megumi; Soga, Naohiro; and Sakka, Sumio.
A STUDY OF THE ABSORPTION SPECTRA OF
CERIUM IN GLASSES. [1962] 16p. 14 refs.
Order from SLA \$1.60 62-20171

Trans. of [Yogyo Kyokaishi] (Japan) 1960, v. 68, no
no. 773, p. 132-137.

DESCRIPTORS: *Glass, Silicates, Phosphates, *Cerium,
*Absorption spectrum, Spectra (Visible and ultra-
violet).

By preparing glasses containing cerium under various
conditions, their light absorptions were investigated.
As a result, the following points were established: (1) In
the silicate glass, the trivalent cerium ions have an
absorption band which is sharp but not very large, with
a maximum at 320 m μ , and the tetravalent cerium ions
have a wide and large absorption band covering the
(Materials--Ceramics, TT, v. 9, no. 10) (over)

62-20171

I. Tashiro, M.
II. Soga, N.
III. Sakka, S.

Office of Technical Services

Behavior of Certain Ions in Glasses
Exposed to X-rays, by M. Tashiro, N.
Soga, S. Sakka.
JAPANESE, per, Yogyo Kyoikai shi, Vol
68, 1960, 169-73.
NTC 69-10734-11B

Sci-Mat
July 69

386,766

Moriya, Taro, Akao, Yoji, and Hatano, Naobumi.
PROCESS OF DEVITRIFICATION OF $Al_2O_3-P_2O_5$
GLASSES Pt. 1 of Studies on Devitrification of
Phosphate Glasses. [1964] [29p] (foreign text included)
10 refs

Order from SLA \$2.60

TT-64-14068

Trans. of Yogyo Kyokai (Japan) 1960; v. 68, no. 6,
p. 145-153.

(Materials--Ceramics, TT, v. 12, no. 2)

TT-64-14068

- I. Moriya, T.
- II. Akao, Y.
- III. Hatano, N.
- IV. Title: Studies...

Office of Technical Services

Mechanical Strength of Polycrystalline
Materials Produced from Platinum-Containing
Glasses, by M. Tashiro, S. Sakka. 63 p.
JAPANESE, per, Yogyo Kyokai shi, Vol 68,
No 10, 1960, pp 223-231.
SIA TT-66-10672

Sci-M&M
Jul 66

305,600

The Effects of Heat Treatment on the
Strength of Polycrystalline Material
Produced from the Glass of the
System of $\text{Li}_2\text{O}-\text{MgO}-\text{Al}_2\text{O}_3-\text{SiO}_2$,
by S. Sakka, M. Wada. 27 p.
JAPANESE, per, Yogyo Kyokai Shi, Vol 69,
No 2, 1961, pp 35-43.
SLA TT-66-10673

Sci-M&M
Jul 66

306,002

Suzuki, H., Kimura, S. and others.

STUDIES OF THE SYSTEMS $Al_2O_3-ZrO-ZrO_2$ and
 Na_2O-ZrO_2 BASIC STUDIES OF $Na_2O-Al_2O_3-ZrO_2$
TYPE REFRACTORIES, PT. 1. [1963] 12p.

Order from ATS \$15.65

ATS-93Q70J

Trans. of Yogyo Kyoikashi (Japan) 1961, v. 69, no. 2,
p. 52(72)-59(79).

DESCRIPTORS: *Refractory materials, *Aluminum
compounds, *Zirconium compounds, *Sodium com-
pounds, Oxides, Phase studies.

(Materials--Refractories, TT, v. 10, no. 8)

63-22145

I. Suzuki, H.

II. Kimura, S.

III. ATS-93Q70J

IV. Associated Technical
Service, Inc.,

East Orange, N. J.

V. Title: Basic Studies ...

Office of Technical Services

Sintering of Urania-Thoria Bodies, by Toshiyuki
SATA, Kiyoura RAISEKU.
JAPANESE, per, Yogo Kyokai Shi, Vol 69, 1961,
pp 118-124.
*AEC

Sci - Nuclear Science
Jun 67

63-17126

Fujii, K.
REACTIONS BETWEEN SODIUM SILICATE SOLUTION
AND SODIUM FLUOSILICATE. [1963] 12p.
Order from ATS \$16.95

ATS-77Q67]

Trans. of Yogyo Kyokaishi (Japan) 1961, v. 69, no. 5,
p. 137-144.

DESCRIPTORS: *Sodium compounds, *Silicates,
Solutions, *Fluorides chemical reactions.

- I. Fujii, K.
- II. ATS-77Q67]
- III. Associated Technical
Services, Inc.,
East Orange, N. J.

ATS JT-3908

(Chemistry--Inorganic, TT, v. 10, no. 1)

Office of Technical Services

Studies on the Glass Formation Range of Borate
Systems, by M. Imaoka.
JAPANESE, per, Yogyo Kyokai Shi. Vol 69, No 9,
1961, pp 282-306.
NTC 69-11442-11B

Sci-Mat
July 69

387,112

Effect of the Minor Ingredients of Glass
Batch on the Melting Process Observed
Under High Temperature Microscope,
by M. Ihara, T. Arimori. 18 p.
JAPANESE, per, Yogyo Kyokaishi, Vol 71,
No 1, 1963, pp 109-116.
SLA TT-66-10694

Sci-M&M
Jul 66

306,014

Role of Cerum Ions in Preventing the
Y-Ray Induced Coloration of Glass, by
N. Soga, M. Tashiro.
JAPANESE, per, Yogyo Kyokai Shi, Vol 70,
No 5, 1962, pp. 143-7.
NTC 69-10547-11B

Sci-Mat
July 69

386,750

Crystal Habit of Hydrothermal Corundum. 1.
Effects of Impurity Ions on Hydrothermal
Synthesis of Corundum, by G. Yamaguchi.
JAPANESE, per Yogyo Kyokai shi, Vol. 71,
No. 9, 1963, pp 182
GB 8/726 - 40/-

Sci -
Aug 67

338-417

Ihara, M. and Arimori, T.
EFFECT OF MINOR INGREDIENTS OF GLASS
BATCH ON MELTING PROCESS OBSERVED UNDER
HIGH TEMPERATURE MICROSCOPE. [1963] 15p

14refs

Order from SLA \$1.60

63-18933

Trans. from [Yogyo Kyokaiishi] (Japan) 1963, v. 71,
no. 13.

DESCRIPTORS: *Glass, *Melting, *High-temperature
research, *Microscopes, Electric furnaces, Materials,
*Phase studies, Microscopy.

A simple high temperature microscope was constructed,
which, although of low magnification, was used to ob-
serve the melting process of about one gram samples
up to 1450°C. It was found that addition of selected
minor ingredients was effective for enhanced bubble
formation, the fluidity of the melt, and the rate of
(Materials--Ceramics, TT, v. 10, no. 10) (over)

63-18933

I. Ihara, M.
II. Arimori, T.

Office of Technical Services

TT-65-13751

Field 11B

Sugiura, T.; Murakami, K.; Tanaka, H.; Akimoto, H.
RESEARCH ON RADIATION SHIELDING MATERIALS.
PAPER 2. RADIATION SHIELDING PROPERTIES OF
GLASSES OF THE $\text{Li}_2\text{O}-\text{PbO}-\text{B}_2\text{O}_3$ SYSTEM. 8p, 8refs.
Order from SLA: \$1.10 as TT-65-13751

Trans. of Yogyo Kyokaiishi (Japan) v72 n5 p71-5 1964.

I. Title: Radiation. . .

MR 664

A Study of Cartilage Changes and Aging, by
M. Koizumi,
JAPANESE, per, Yokohama Igaku, Vol XV, 1964,
pp 184-201.
HEW-NIH-1-19-67

Sci-B&M
Feb 67

318,999

The Interrelation of Retina Blood Vessel, Retinal
Blood Pressure, Systemic Blood Pressure and
Renal Changes in the Aged of Japan, by Saito, Kimiko
JAPANESE, par, Yokufuen Chose Kenkyu Kiko,
Vol. 35, pp. 35-50, 1962.
HEW 2-24-65

FE-Japan
Sci-M/B
Mar 65

275,786

Clinical Prognosis and Pathological Studies
of Mild Diabetes Mellitus in the Older Age
Group, by Teiji Murachi, et al,
JAPANESE, per, Yokufuen Chosa Kenkyu Kiyo ,
No 40, 161-170, 1964.
Dept HEW, NIH, 8-49-65.

Sci-Biol & Med
Oct 65

290,329

Age and Diabetes Mellitus, by Teiji Murachi,
et al.

JAPANESE, per, Yokufuen Chosa Kenkyu Kiyo,

No 40, 171-180, 1964

Dept HEW, NIH, 8-51-65

Sci-Biol & Med

Oct 65

290,331

Hiraki, Osamu

1932

On the hybrids between "Masu" and "Amago" (Masu oyobi amago
kohaishu ni tsuite)
Tokyo-fu Suisan Haiho (Tokyo Prefecture Fisheries Report),
(6): 81-84. in Japanese.

Transl. by Transl. ur., Egn. Lang. Div., Dept. of Sec. of
State of Canada, for FRBC Biological Station, Nanaimo, B.C.,
1972, as Transl. Series No. 2037, 5p., typescript.

Avail. on loan - NMFS, Wash., D.C.

Original Article Checked *MR*

In the "Ashes of Death" Valley.

JAPANESE, bk, Yomiuri Science, Oct 1957, 138 pp.

6004th AISS Tr IR-4553-57

Sci - Misc

Dec 57

56,417

cc Fifth Columnists in Japan, 3 pp.

JAPANESE, per, Yomiuri Shimbun, 4 Aug 1953,
Tokyo, Rpt No C-1684.

AF 602312

FE - Japan
Political
CTS/DEX

CIA 2211403

10,101

Anti-Aircraft Guided Missile Would Be in
Quantity Production in Japan, 3 pp.

JAPANESE, per, Yomiuri, 7 Jun 1957.

CIA/FDD X-2503

FE - Japan
Econ - Production
Sci - Aeronautics
Jul 57

50,452

Ministry of International Trade and Industry
Completes Study on Conditions of Defense Industries,

JAPANESE, per, Yomiuri Shinbun, 19 Jan 1954, Encl
to Rpt No IR-135-54, Tokyo.

AF 613273

FE - Japan
Economic
CIS/DEX

CIA 2508303

11,464