

TT-64-14692

Shishido, Shunsuke.
HIGH VISCOSITY (II). Rept. 11 on [Electrolytic] Con-
ductivity of Fused Salts. [1963] 18p (figs omitted)

I. Shishido, S.
II. Title: Electrolytic...

10refs

Order from SLA \$1.60

TT-64-14692

Trans. of Denki Kagaku (Japan) 1948, v. 16, no. 1/4,
p. 1-5.

(Chemistry--Physical, TT, v. 12, no. 1)

Office of Technical Services

Study of Tungsten Oxides which Possess High

Study of Tungsten Oxides which Possess High
Dielectric Constants (Second Report), by Nariyuki
Nagasawa,
JAPANESE, per, Denki Kagaku, Vol 23, 1948,
pp 57-59.
ACSI J-3176
ID 2204036567

Sci-Electronics
Nov 67

343,988

Nozaki, Hiroshi.
ELECTROLYSIS OF FUSED SALTS. PT. 3. ELEC-
TROLYSIS OF FLUORIDES OF ALUMINUM AND
SODIUM. [1963] [lip]
Order from SLA \$1.60

63-20466

Trans. of [Denki Kagaku] (Japan) 1948, v. 16,
p. 15-16.

DESCRIPTORS: *Fused materials, Salts, *Electrolysis,
Sodium compounds, Aluminum compounds, Fluorides,
Chemical reactions.

(See also 63-20465)

(Chemistry--Physical, TT, v. 10, no. 12)

63-20466

I. Nozaki, H.
II. Title: Electrolysis of
Fluorides...

Office of Technical Services

and Case for Michel Sureau, by Fumio Hirai, 13 pp.

JAPANESE, Gen. Denki Kagaku, Vol XVI, No 1/2,
1976, pp 23-27.

SEA 95-17183

Sci
Jan 60
Vol 2, No 7

104, 217

Nozaki, Hiroshi.
ELECTROLYSIS OF FUSED SALTS, PTS. 1-2. [1963]
[15p]
Order from SLA \$1.60

63-20465

Trans. of [Denki Kagaku] (Japan) 1948, v. 16, p. 31-36.

DESCRIPTORS: *Fused materials, Salts, *Electrolysis,
Aluminum compounds, Oxides, Chemical reactions,
Electrochemistry, Metals, Mixtures.

Contents:

Voltaic reaction between a metal and its salt

A discussion of the voltaic effect in a mixture of a
metal and a salt, and the relationship between the
voltaic effect and electrolysis.

(Chemistry--Physical, TT, v. 10, no. 12)

63-20465

I. Nozaki, H.

Office of Technical Services

TT-64-14683

Shishido, Shunsuke.
HIGH VISCOSITY (II-III). Rept. 12 on Electrolytic Con-
ductivity of Fused Salts. [1963] 33p (figs omitted)

I. Shishido, S.
II. Title: Electrolytic...

2refs
Order from SLA \$3.60

TT-64-14683

Trans. of [Denki Kagaku] (Japan) 1948, v. 16, p. 47-54.

See also TT-64-14692)

(Chemistry--Physical, TT, v. 12, no. 1)

Office of Technical Services

Solubility of MgO in an Electrolytic Bath

Tsuchiya, Ryokichi.
OXIDATION EQUILIBRIUM OF MAGNESIUM
ELECTROLYTIC SOLUTION III. OXIDATION
EQUILIBRIUM OF THE MIXED SOLUTION OF
MAGNESIUM CHLORIDE WITH POTASSIUM OR
SODIUM CHLORIDE. 11p (2 figs omitted) 2refs
Order from SLA \$1.60 TT-64-16434

Trans. of Denki Kagaku (Japan) 1949, v. 17,
(no. 5) p. 76-79.

(Chemistry--Physical, TT, v. 12, no. 3)

TT-64-16434

I. Tsuchiya, R.
II. Title: Oxidation
Equilibrium ...

Office of Technical Services

TT-64-14151

Mukaiho, Takashi and Matsuno, Takeo.
STUDIES OF THE PROPERTIES OF FUSED ELEC-
TROLYTES FOR THE ELECTROLYTIC PRODUCTION
OF MAGNESIUM. [1964] 21p (figs omitted) 6refs
Order from SLA \$2.60 TT-64-14151

- I. Mukaiho, T.
- II. Matsuno, T.
- III. SLA-II-502

Trans. of [Denki Kagaku] (Japan) 1949, v. 17,
P. 127-132.
Another trans. is available from SLA as II-502, 2p.

(Chemistry--Physical, TT, v. 12, no. 1)

Office of Technical Services

TT-63-20464

Fuseya, Gichiro and Ouchi, Kenichi.
THE MEASUREMENT OF THE DENSITIES OF THE
BINARY ELECTROLYTIC BATH $\text{NaCl}-\text{CaCl}_2$ [1963]
12p 20refs
Order from SLA \$1.60

TT-63-20464

Trans. of [Denki Kagaku] (Japan) 1949, v. 17,
p. 254-258.

DESCRIPTORS: *Chlorides, *Sodium compounds,
*Calcium compounds, Electrolytes, Mixtures,
Melting, Density, Surface tension, Electrolysis.

I. Fuseya, G.
II. Ouchi, K.

(Chemistry--Physical, TT, v. 11, no. 2)

Office of Technical Services

TT-64-14665

Sakai, Kaoru.
PREPARATION OF BINARY LEAD-CALCIUM ALLOY
BY ELECTROLYSIS OF FUSED SALTS. [1963] 8p
(figs omitted) 23refs
Order from SLA \$11.10

I. Sakai, K.

TT-64-14665

Trans. of [Denki Kagaku] (Japan) 1950, v. 18, p. 12-14.

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

Office of Technical Services

(FDD 20885)

Dielectric Properties of Oxides of Rare Metals, by
Shigeyuki Nagasawa, 8 pp.

JAPANESE, per, Denki Kagaku, Vol XVIII, Jan 1950.

CIA/FDD/U-6115

FE - Japan

Sci - Physics

S.L.F. 433

Jul 54 CTS

17.236

Palladium Electrode for the Measurement of
PH. -Denki Kagaku, by Fusao Ishikawa, Sebuo
Fuji, 11 pp.

JAPANESE, per, Denki Kagaku (Journal of the
Electrochemical Society of Japan), Vol XVIII,
No 6, Jun 1950, pp 187-189.

NIH Tr 95

Sci - ~~Electronics~~ *Chemistry*
30,319

Sakai, Kaoru and Imai, Hideo.
STUDIES ON THE PREPARATION OF CALCIUM-
MAGNESIUM ALLOY BY THE ELECTROLYSIS OF
FUSED SALTS. PT. I. ON THE PREPARATION OF
Ca-Mg ALLOY FROM THE FUSED HALIDE MIXTURES
CONTAINING MgO BY MEANS OF ELECTROLYTIC
SIMULTANEOUS DEPOSITION. [1963] [9p] 33refs
Order from SLA \$1.10 TT-63-20762

Trans. of Denki Kagaku (Japan) 1951, v. 19,
p. 107-110. (Abstract available)
Another trans. is available from SLA as AL-632,
7p. (Abstract available).

DESCRIPTORS: *Calcium alloys, *Magnesium alloys,
*Electrodeposition, Halides, Magnesium compounds,
Oxides, *Electrolysis, Chlorides, Fluorides, Potassium
compounds, Sodium compounds, Hydrogen compounds,
Silicon compounds, Dioxides, *Fused materials, Salts.
(Chemistry--Physical, TT, v. 11, no. 4) (over)

TT-63-20762

- I. Sakai, K.
- II. Imai, H.
- III. Title: Preparation ...
- IV. SLA-AL-632

Office of Technical Services

Hayakawa, Yasumasa and Kido, Hidchiko.
THE SOLUBILITY OF SUBSTANCES IN MOLTEN
SALTS. REPT. 1. THE SOLUBILITY OF MAGNESIA
AND LIME IN MOLTEN CRYOLITE. [1964] 7p (figs
omitted)

Order from SLA \$1.10

TT-64-14141

Trans. of [Denki Kagaku] (Japan) 1951, v. 19,
p. 374-376.

Other translations are available from SLA as II-331, 7p
and from K-H \$4.20 as K-H-3000-d [1964] 7p.

(Chemistry--Physical, TT, v. 12, no. 1)

TT-64-14141

- I. Hayakawa, Y.
- II. Kido, H.
- III. Title: Solubility...
- IV. SLA-II-331

Office of Technical Services

Studies on Various Modifications of Sodium
Amalgam. Rept. 4. Inquiries into the Structure
of Sodium Amalgam, by Yoshiki Inoue, Akira
Osugi, Takao Amoo, Akira Takai, Kazutaka Adachi,
Takayasu Asafuji, 10pp
JAPANESE, per, Denkō Kagaku, Vol 22, 1954, pp
121-126
SLA TT-65-10019

Sci - Chem
June 67

329,386

Electrochemical Study of Corrosion Phenomena.
Part I. On the Dissolution Mechanism of Iron in

Characteristics of High Temperature Type Solid
Electrolyte Fuel Cells Employing $\text{CeO}_2 - \text{La}_2\text{O}_3$
System Solid Solutions, by T. Takahashi,
K. Ito, H. Iwabara, 17 pp.
JAPANESE, per, Denki Kagaku, Vol 34, 1956,
pp 205-209. P911191367
AEC NP-Tr-1526

327,861

Sci - Electronics
Jun 67

61-22134

Kato, J. and Sakuma, M.
POLAROGRAPHIC SEARCH FOR CATHODES
EFFECTIVE FOR PARTIAL REDUCTION. [1951] 10p.
Order from ATS \$16.85 ATS-95N49]

Trans. of Dokki Kagaku (Japan) 1957, v. 25, p. 126-131.

1. Polarographic analysis
 2. Electrodes--Materials
 3. Oxidation-reduction reactions--Analysis
 4. Electrochemistry
- I. Kato, J.
 - II. Sakuma, M.
 - III. ATS-95N49]
 - IV. Associated Technical Services, Inc., East Orange, N. J.

1951

Office of Technical Services

(Chemistry--Physical, TT, v. 5, no. 11)

On the Slade Potential of Passive Nickel,
by Go Okamoto, Tetsuo Takaishi, et al.

JAPANESE, per, Denki Kagaku, Vol XXVI,
1958, pp 615-619.

*FTD-TT-62-1781

Sci - Min/Met
Nov 62

Mizuno, S. and Toshima, S.
THE ELECTROLYSIS OF BRINE WATER WITH A
MERCURY JET CATHODE. [1963] [20p]
Order from SLA 511 60 TT-64-14360

Trans. of Denki Kagaku (Japan) 1959, v. 27, p. 391-394.
(Abstract available)

DESCRIPTORS: *Electrochemistry, *Sea water,
*Sodium compounds, Chlorides, Impurities,
Electrolysis, *Cathodes (Electrolytic cells) *Mercury,
Liquid jets, Ultrasonic radiation.

Brine was electrolyzed using the mercury cathode in which mercury was ejected at high speed from a capillary to form a continuous stream. An abnormally high current density at the cathode could be easily obtained, and the current density was controlled largely by the mercury flow rate. Electrolysis of purified sodium chloride solution was performed, and it was found that electrolysis could be carried out at sufficiently high (Chemistry--Physical, TT, v. 11, no. 11) (over)

TT-64-14360

- I. Title: Jet cathodes
- I. Mizuno, S.
- II. Toshima, S.

Office of Technical Services

Electron Microscopic Studies of the Surface
Structure of Cadmium Hydroxide Electrodes, by
Shiro Yoshizawa, Zenichiro Takehara, et al.
JAPANESE, per, Denki Kagaku, Vol 28, 1960,
pp 10-16. P911126566
AEC SC-T-66-0754

Sci/Electronics
Dec 66

314,590

Changes of Fine Structure of Cadmium Electrode
Surface by Various Discharge Conditions, by
Shiro Yoshizawa, Zenichiro Takehara.
JAPANESE, per, Denki Kagaku, Vol 28, No 2, 1969,
pp 53-58, P911126766
AEC SC-t-66-0751

Sci/electronics
Dec 65

314,588

62-10621

I. Maeda, M.

Maeda, Masao.
SEMICONDUCTOR ELECTRODE. [1961] [20]p.

18 refs.

Order from SLA \$1.60

62-10621

Trans. of Denki Kagaku (Japan) 1961, v. 29, p. 8-14.

DESCRIPTOR: *Semiconductors, *Electrodes,
Electrochemistry, Space charges, Reduction, Germanium, Solid state physics.

This short paper explains the difference when semiconductor instead of metals are used for electrode.

(Physics--Solid State, TT, v. 7, no. 11)

Office of Technical Services

62-18322

Yokoyama, Tatsuo.

ON THE CHANGE OF THE ESCAPE OF CHLORINE AFTER THE DISAPPEARANCE OF FREE HYDROCHLORIC ACID IN THE CHLORATE CELL. Pt. 2 of Studies on the Escape of Chlorine in the Sodium Chlorate Cell. [1962] 9p. 2 refs.
Order from SLA \$1.10

62-18322

I. Yokoyama, T.
II. Title: Studies ..

Trans. of Denki Kagaku (Japan) [1961] v. 29, p. 697-701.

DESCRIPTORS: Electrolytic cells, Chlorates, *Hydrochloric acid, *Chlorine, Sodium compounds, Electrolysis.

The escape of chlorine is determined by the entire amount of gas evolved from the bath and the pressures of Cl_2 and $HClO$. During electrolysis, the Cl_2 pressure sometimes varies quite widely but the percentage of variation of the total amount of gas evolved is small. Depending on the amount of hydrochloric acid (Engineering--Chemical, TT, v. 9, no. 9) (over)

Office of Technical Services

Oxygen Electrodes for a High-Temperature Fuel Cell, by T. Takahashi, A. Korawa, et al.

JAPANESE, per, Denki Kagaku, Vol. XXIX, No. 11, 1961, pp 762-765.

NASA TT F-8288

Sci
Apr 63
US GOV'T ONLY

227,188

Fuel Cells (Part II). Preoxidation of the Sintered
K. Ito.

Semiconductive Films, by Z. Sakai,
JAPANESE, for, Denki Kagaku, Vol. XXX, 1962,
pp 82-88.
AFS JS-71

Sci-Phys
Apr 67

324,774

Ueda, S., Watanabe, A., and Tsuji, F.
THE ADSORPTION BEHAVIOR OF NONIONIC SURFACE-
ACTIVE AGENTS CONSIDERED FROM THE STAND-
POINT OF THE DIFFERENTIAL DOUBLE LAYER
CAPACITY. [1963] 10p.
Order from ATS \$16.00

ATS-88Q69J

Trans. of Denki Kagaku (Japan) 1962, v. 30, no. 8,
p. 582-586.

DESCRIPTORS: *Adsorption, *Surface-active
substances, *Electrical double layer, Electrochemistry.

(Chemical--Physical, TT, v. 10, no. 6)

63-17772

- I. Ueda, S.
- II. Watanabe, A.
- III. Tsuji, F.
- IV. ATS-88Q69J
- V. Associated Technical
Services, Inc.,
East Orange, N. J.

Office of Technical Services

Studies of Vertical Mercury Cell With
Cylindrical Cathode, by S. Sawada, et al.
JAPANESE, per, Denki Kagaku Vol XXXI,
1963, pp 776-781.
Chem Times Sv No 2563

Sci-Chem
Mar 67

322,142

T. Hatanaka

O. Yamamoto

Phase Diagrams of the System Thallium Chloride-
Alkali Chlorides and Thallium Chloride-Eutectice
Chlorides, by Seiji Tani, 9 pp.
JAPANESE, per. Lenki Kagaku, Vol XXXII, 1964,
pp 167-170.
NEC-K-1X-7

Sci-Mater Chem
Aug 68

286,382

Model Experiment on Specific Resistance of
Brine-Containing Bubbles, by Kazuo Takata,
Hiroshi Morishta.
JAPANESE, per, Denki Kagaku, Vol 32, 1964,
pp 376-378.
TC-1053

Sci-Chem
Sept 66

303,873

Studies on Chlorine Bubbles in the Electric

Application of the Polarographic Method to the
Analysis of Synthetic Phosphors With a Note
On the Estimation of Palladium, by Shinichiro
Hakomori, Takashi Tashiro, 12 pp.

JAPANESE, per, Denki Kagaku Kyokaiishi, Vol II,
1934, pp 15-18.

AEC ~~OR~~ TP-880

Sci - Chem
26 Oct 60

130,869

Preliminary Consideration on the Mercury Flow in
the Mercury Chlorine Cell (Part 1) Pure Mercury
Flow in the Non Operated Cell, by Sugino Toshiyuki,
27 pp.

JAPANESE, per, Denki Kagaku Zasshi, Vol XX, 1952,
pp 495-502.

AEC UCRL-Trans-515

Sci - Chem
Apr 60

112,931

Investigation of the Contact and Duration
Measurement Apparatus and the Arc Duration of Silver
Contacts, by G. Matsumoto, S. Kohara, K. Mano.

JAPANESE, monograph, Denki Kankei Gakkai Tohoku
Shibu Benda, Oct 1958.

ATS-63E50J

Sci
Mar 62

189,537

Vol VII, No 2

TT-65-14158

Field 20C

Hattori, S.
THE RELATION BETWEEN THE PHYSICAL TREATMENTS
AND THE MAGNETIC PROPERTIES OF SOFT MAGNETIC
MATERIALS. 178p (13 half-tone figs not reproducible)
59refs.

Order from SLA: \$12.50 as TT-65-14158

Trans. of Tokyo Denk Kenkyo-sho Kenkyu Hokoku (Japan)
Research reports no. 636, Jan 1963.

Nagai, K., Mano, K., and Kitadate, F.
IMPROVEMENT OF ROTARY SWITCHES. [1961] 3p.
Order from ATS \$5.50 ATS-61N50J

Trans. of mono. Danki-San-Gakkai Tokyo Shibu Rengo
Taikai (Joint Meeting of the Tokyo Branches of the
Three Electrical Societies) Oct 52, p. 47.

DESCRIPTORS: *Rotary switches, Design.

(Engineering--Electrical, TT, v. 6, no. 6)

61-22382

- I. Nagai, K.
- II. Mano, K.
- III. Kitadate, F.
- IV. ATS-61N50J
- V. Associated Technical
Service, Inc., East
Orange, N. J.
- VI. Title: Joint...

176632

Office of Technical Services

Carbon Potential in the Endothermic-Type Gas
Atmosphere, by M. Yasuda, S. Masumoto.
JAPANESE, per, Denki Seiko, Vol XXXIII, No 3,
1962, pp 117-128.
BISI 3507

Sci - Engr
Sep 64

267,004

Bi-Axially Magnetic Steel Sheet, by T. Kato,
M. Fujikura.
JAPANESE, per, Denki Seiko, Vol 33, Mar 1962,
pp 141-154.
BISI 4620

314,519

Sci - Mechanical, Industrial,
Civil, and Marine Engineering
Jan 67

Continuous Temperature Measurement of an Electric ARC
Furnace, by A. Yamaki.
JAPANESE, per, Denki Seiko, Vol XXXIII, No 4, 1962,
pp 280-285.
BISI 3462

Sci - Engr
Apr 64

2550,084

Fluorescent X-Ray Analysis of Steels, by
T. Adachi, M. Ito
JAPANESE, per, Denki Seiko, Vol XXXIV, No 4,
1963, pp 384-392,
BISI 3812

Sci - M/M
Sep 64

6B/91/3812

267,008

On the Steady State of Ionization in Weakly
Ionized Plasma in the Non-equilibrium State,
by K. Matsuura.

JAPANESE, mono, Denki Shikensho Iho (Bulletin
of the Electrotechnical Laboratory, Tokyo).

* ~~SECRET~~ *Personal*

Sci - Phys
Oct 64

Millimeter Wave Determination of Plasma Electron
Density, by E. Yahagi, E. Yamashita, 34 pp.

JAPANESE, per, Danki Shikensho Iho, Vol XXIV, 1960,
pp 925-939. 9093609

AEC Tr-4793

Sci - Nuc Phys
Dec 61

177,407

Corona Tests on Oil-filled Plastic Film
Capacitors, by K. Horii, H. Wada, 13 p.
JAPANESE, per, Denki Shikensho Iho, No 27,
1963, pp 47-54. 9226963
AEC SE-T-64-2006

Sci/Chemistry
May 66

300,487

On the Accuracy of Pulse Frequency to
DC Converters, by S. Kushi, 24 pp.
JAPANESE, per, Denki Shikensaho Iho,
Vol 27, No 5, 1963, pp 350-360.
SLA TT-65-10295

338,819

Sci
Aug 67

On the Steady State of Ionization in Weakly Ionized
Plasma in the Non-Equilibrium State, by E. Matsuura.
JAPANESE, per, Denki Shikensho Tho, Vol XXVII, No 7,
1963, pp 491-495. 9695575
DDC-RSIC-333

Sci - NS
Mar 65

275,044

Electrical Research Laboratory Technical Report
No 563, Chapters 2-5. 74 pp.
JAPANESE, per, Denki Shikensho Kenkyu Hokoku,
No 563, 1957, pp 21-71.
AEC ORNL-tr-460

Sci/Electronics
Jun 66

302,527

Researches on Standard Capacitors,
by M. Hamo.
JAPANESE, per. Denki Shiken-sho Kenkyu
Hokoku, No 597, 1964, 124p.
NLL Ref: 8732B 1966 (1235)

Sci-Elec & Electrical Engr
Sept 66

309,547

Few Experimental Works on the Transfer of Electro-
photographic Latent Images, by H. Kiwaki.
JAPANESE, per, Denki Shiken-Sho Iho. Vol. 18, No. 12
1964, pp 881-886
GB 131/T 4795

Sci -
Aug 67

337-206

A Hyper-wideband Microwave Antenna by
Tokio Sakurai. 24 pp.
JAPANESE, per, Denki Tsushin Gakkai Zasshi,
Vol 38, 1955, pp 10-16.
NASA TT F-13,071

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sci-comm
nov 70

Expansion of Chinese Communications, by Sugiyama,
15 pp.

JAPANESE, per, Denki Tsushin, Nov 1956.
CIA 56562

234th Signal Detachment (Intel)

FE - China
Economic
May 1957 CTS/dex

47, 839

The 12th Meeting of the Telecommunications
Facilities Research Association Visits the SDF Communi-
cations School, 1 p. unclassified.

JAPANESE, per, Denki Tsushin, Aug 1957, p 40.

USASIA Tr 977/10

Feb 58

Membership Roster of Telecommunication Society.

"Teddie" Electronic-Decimal-Digital-Type Differential
Analyzer Under Development in Tokyo Shibaura
Electric Co, by S. Mita, K. Chiba. UNCLASSIFIED

JAPANESE, per, Denki Tsushin Gakkaishi Zasshi.

USASIA Tr 972P

Sci - Electron

Feb 58

59,246

Study on Electronic Computers in Fuji Communication
Apparatus Mfg Co. UNCLASSIFIED

JAPANESE, per, Denki Taushin Gakkai Zasshi.

USASIA Tr 972Q

Sci - Electronics

Feb 58

59,239

Study on Automatic Computers in Nippon Electric Co,
by K. Egamori. UNCLASSIFIED

JAPANESE, per, Denki Tsushin Gekka Zasshi.

USASIA Tr 972R

Sci - Electron

Feb 58

59,240

Study on Digital Electronic Computers at Kyoto
University by K. Maeda, T. Sakai, T. Tanaka.

Study on Electronic Computers at Tohoku University,
by J. Oizumi. UNCLASSIFIED

JAPANESE, par, Denki Tsushin Gakkai Zasshi.

USASIA Tr 972T

Sci - Electron

Feb 58

ow
59,242

On Parametron Computer "M-1", by Z. Kiyasu,
S. Muroga, K. Takahisa. UNCLASSIFIED

JAPANESE, per, Denki Tsushin Gakkai Zasshi.

USABIA Tr 972U

Sci - Electron

59,235

Feb 58

On the Parametron Computer Developed in Denshi Sokki
Co, by U. Miyagami. UNCLASSIFIED

JAPANESE, per, Denki Tsushin Gakkai Zasshi.

USASIA Tr 972V

Sci - Electron

Feb 58

59,236

On the Electronic Computer Developed at Osaka
University, by K. Jo, S. Makinouchi, Y. Yasui.

UNCLASSIFIED

JAPANESE, per, Denki Taushin Gakkai Zasshi, Jun 1957

USASIA Tr: 972W

Sci - Electron

Feb 58

59,237

Transistorized Electronic Computer ETL Mark III,
by S. Takahashi, H. Nishino, I. Matsuzaki, K. Kondo.
UNCLASSIFIED

JAPANESE, per, Donki Teushin Gakkai Zasshi, Jun 1957.

USASIA Tr 972X

Sci - Electron

Feb 658

59,238

On TAC Computer, by A. Anemiya. UNCLASSIFIED

JAPANESE, per, Denki Tsushin Gakkai Zasshi, Jun 1957.

USASIA Tr 972Y

Sci - Electron

Feb 58

59,231

Electronic Computer "FALIC" and Its Operation.

Relay Type Digital Automatic Computer, by
U. Komamiya. UNCLASSIFIED

JAPANESE, per, Denki Tsushin Gakkai Zasshi.

USASIA Tr 972M

Sci - Electronics

59,243

Feb 58

A Method of Designing Delay Circuits, by Zenichi
Kiyasu, 40 p.

JAPANESE, per, Denshi Taushin Gakkaishi, 1953,
Vol XXVI, Aug pp 598-610.

SLA 59-17476

Sci

Feb 60
Vol 2, No 10

108,875

Noise Figure of Very-High-Frequency Receiver, by
Masuo Faki, Jun Tamiya, 25 p.

JAPANESE, per, Denshi Taushin Gakkaishi Zasshi, 1950,
Vol. XXXIII, No 6, pp 305-312.

BIA 59-17795

Sci
Feb 60
Vol 2, No 9

107,079

Endo, Kokiichi, Yoshida, Minoru and others.
MEDIUM FREQUENCY BROADCAST ANTENNAS
WITH UMBRELLA TOP LOADING. [1963] [21 p.
(foreign text included) 4 refs.
(Order from SLA \$2.60

63-18398

Trans. of Denki Tsushin Gakkai [Zas]shi (Japan) 1956
[v. 39, no. 2, p. 112-117].

DESCRIPTORS: *Antennas, *Radio broadcasting,
Antenna configuration, Antenna components, Antenna
radiation patterns, Medium frequency, Attenuation,
Design, Operation, Tests.

According to the results of the antenna operations
and experiments made by Radio Tokyo 50-kW Station
(JOKR) and Hokkaido Broadcasting Co. 10-kW Station
(JOHR), where a top-loaded medium frequency broad-
cast antenna of umbrella type instead of disk type has
(Physics--Electronics, TT, v. 10, no. 12) (over)

63-18398

I. Title: Umbrella antenna
I. Endo, K.
II. Yoshida, M.

Office of Technical Services

F
RACOM-128 Relay-Type Computer. UNCLASSIFIED

JAPANESE, per, Denki Tsushin Gakkai Zasshi, Jun
1957.

USASIA Tr 97EN

Sci - Electron

Feb 58

59,244

Study on Digital Electronic Computer in Hitachi
Ltd, by S. Takada. UNCLASSIFIED

JAPANESE, per, Denki Tsushin Gakkaï Zasshi, Jun
1957.

USASIA Tr 9720

Sci - Electron

Feb 58

59, 245

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USASIA Tr: 972-2

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Preparations Progressing for Japan's Observation
of the Satellite, 1 p. UNCLASSIFIED

JAPANESE, per, Denki Tsushin Gakokai Zasshi, Jul
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USASIA Tr 977/9

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Approximation of the Transfer Characteristics
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M. Higashiguchi,
JAPANESE, per, Denki Tsushin Gakkai Zasshi,
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NLL 5207 (1193)

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A10-Type all Electronic Telephone Exchange System,
by T. Osatake, M. Akimaya.

JAPANESE, per, Denki Tsushin Gakkai Zasshi, Vol XL,
No 5, 1957, pp 546-556.

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Hayasaka, Hisao and Suzuki, Tamiji.
CONDENSER RECEIVER. [1962] 22p. 8 refs.
Order from SLA \$2.60

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Trans. of Denki [Tsushin] Gakkai Zasshi (Japan) 1957,
v. 40, no. 11, p. 1151-1157.

DESCRIPTORS: *Telephone receivers, *Capacitors,
*Titanium, Design, Tests, *Microphones.

(Research Methods--Communication Theory, TT,
v. 10, no. 4)

62-20162

I. Hayasaka, H.
H. Suzuki, T.

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Wave-Form Observation of Electron Current Using
Traveling-Wave Cathode-Ray, by Haruo Maeda,
24 pp.

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Vol XL, 1957, pp 1171-1177.

ABC Tr: 3654

Sci - Electron

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System and Logical Design of the Parametron
Digital Computer Musasino-1, by Saburo Muroga,
Kensuke Takahima, 37 p.

JAPANESE, per, Denki Tsushin Gakkaishi Zasshi,
1958, Vol XLII, No 11, pp 1132-1141.

SLA 59-17793

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Engineering Description of the Parametron
Digital Computer Musasino-1, by Kensuke Takashima,
Saburo Maraga, Kazuo Nishida, 32 p.

JAPANESE, per, Denki Taushin Gakkaishi, 1958,
Vol. XLII, No. 11, pp 1141-1149.

GLA 59-17792

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Vol. 2, No 9

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Magnetic Core Memory of the Parametron Digital
Computer Musasino-I, by Shigeharu Yamada,
Teruhiko Basaho, Tsuneori Koshiba, 24 p.

JAPANESE, per, Denki Tsushin Gakkai Zasshi, 1958,
Vol XLII, No 11, pp 1149-1155.

BLA 59-17794

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Ameliorations du Multivibrateur a Frequence
Variable, by M. Arai, 31 p.

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1957, Vol XL, No 11, pp 1177-1184.

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A New High Sensitive Receiving System for
Frequency Modulated Wave, by M. Morita, S. Ito.
JAPANESE, per. Danki Tsushin Gakkaishi,
Vol. 32, 1959, pp 737-744.
NII Ref: 9022.81 (2376)

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Hoshiko, Y., Minami, T., and Omori, T.
ERROR PROBABILITY AND DISTORTION DISTRIBUTION DUE TO TRANSMISSION DISTORTION IN A BINARY TRANSMISSION SYSTEM. [1961] 15p.
Order from ATS \$20.85 ATS-56N49J

Trans. of Denki Tsushin Gakkai Zasshi (Japan) 1960, v. 43, no. 2, p. 146-153.

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- I. Hoshiko, Y.
- II. Minami, T.
- III. Omori, T.
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- V. Associated Technical Services, Inc., East Orange, N. J.

ATS 56-4114

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Watanabe, H.
 THEORY OF THE CHEBYSHEV APPROXIMATION
 FOR FILTER NETWORKS. [1961] 21p. 9 refs.
 Order from MDF \$12.50
 Trans. of [Denki Tsushin Gakkai Zasshi] (Japan) 1960,
 v. 43, no. 3, p. 271-280.

MDF W-101

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1. Microwave networks--
Mathematical analysis
2. Band-pass filters--
Mathematical analysis
3. Title: Chebyshev
approximation

- I. Watanabe, H.
- II. MDF W-101
- III. Friedman, Morris D., Inc.,
West Newton, Mass.

ATS JO-4115
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(Engineering--Electronic, TT, v. 5, no. 11)

Hayashi, Toshiya.
A NEW TYPE OF FIELD EFFECT TRANSISTOR.
[1962] 21p. 12 refs.
Order from SLA \$2.60

62-20180

Trans. of [Denki Tsushin Gakkai Zasshi] (Japan) 1960,
v. 43, no. 3, p. 298-305.

DESCRIPTORS: *Transistors, Ultrasonic radiation,
Theory, Design.

This article proposes a new type of easy-to-make field effect transistor, and describes its structure, theory of design, method of production, the basic characteristics of a trial model, its advantages and uses. The structure of this type is characterized in that grooves are set very close to the junction part in the P or N layer of a growth-type PN junction, thus forming thin layers between the other layers. These are the channels of the field effect transistor. In addition, the re- (Engineering--Electronic, TT, v. 10, no. 2) (over)

62-20180

1. Title: Field effect
I. Hayashi, T.

Office of Technical Services

Kawamura, Mitsuo.
HIGH CONVERGING GUN. Tokyo Inst. of Technology,
Thesis no. 3222. [1964] 12p (figs tables formulae
omitted) 8refs
Order from SLA \$1.60 TT-64-14758
Trans. of Denki Tsushin Gakkai Zasshi (Japan) 1960,
v. 43, no. 6, p. 711-718.

TT-64-14758

I. Kawamura, M.

(Engineering--Electronic, TT, v. 11, no. 11)

Office of Technical Services

Three Terminal Esaki-Diodes (Characteristic Control Method of Esaki-Diodes), by Toshiya Hayashi, Yoshio Sunohara, 12 pp.

JAPANESE, per, Denki Tsushingakki Zasshi,
Vol XLIV, No 5, 1961, pp 806-810.

Navy Tr 3217/NRL 900

Sci - Electron

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Umehara, Tadatoshi.
LECHER-GOBAU LINE. [1962] 21p. 4 refs.
Order from SLA \$2.60 62-18841

Trans. of [Denki Tsushin Gakkai Zasshi] (Japan) 1961,
v. 44, no. 3, p. 500-507.

DESCRIPTORS: *Transmission lines, *Electro-
magnetic waves, *Propagation, Dielectrics, Elec-
tromagnetic fields, Attenuation, Electrical impedance.

In order to improve on various shortcomings of the
Goubau line, among which are the scattering by
adjacent objects, an increase of loss by earth, and a
large radiation loss from the curved portion, one of the
counter-measures proposed is wherein two G lines are
placed with a small distance between them, and the two
lines, mutually exciting inverse phases, form a propa-
gation line. Two parallel lines with dielectric covering,
without the presence of TEM waves, are the line of
(Physics--Wave Propagation, TT, v. 9, no. 9) (over)

62-18841

1. Title: Lecher-Gobau
line
I. Umehara, T.

Office of Technical Services

Niimi, T., Hayashi, T., and Sunohara, Y.
THE FIELD EFFECT TRANSISTOR AS A NEGA-
TIVE RESISTANCE DEVICE. [1962] 15p. 10 refs.
Order from SLA \$1.60 62-18096

Trans. of Denki Tsushin Gakkai Zasshi (Japan) 1961,
v. 44, no. 5, p. 811-814.

DESCRIPTORS: *Transistors, Resistance, *Switches,
Field emission, Design, Manufacturing methods,
*Negative resistance circuits.

This article deals with the structure of one type of
field effect transistor as a negative resistance device;
its principles of operation, method of design and
production, the basic properties of the finished
product, its advantages and uses. This structure sho-
ws that it is identical with the very narrow base
of an alloy-type transistor equipped with a ring base.
The producer mechanism of the negative resistance
characteristics which appear in the gate circuit, is
(Engineering--Electronic, TT, v. 8, no. 9) (over)

62-18096

I. Niimi, T.
II. Hayashi, T.
III. Sunohara, Y.

Office of Technical Services

62-16605

I. Inose, H.

Inose, Hiroshi,
BLOCKING PROBABILITY AND JUNCTION CAPACITY
OF A THREE STAGE TIME-DIVISION SWITCHING
NETWORK. [1962] 20p. 6 refs.
Order from SLA \$1.60

62-16605

Trans. of [Denki Tsushin Gakkai Zasshi] (Japan) 1961,
v. 44, no. 5, p. 934-941.

DESCRIPTORS: *Telephone communication systems,
Telephone lines, Panel boards (Electricity), Load
distribution, *Probability, Switching circuits.

In an exchange system composed of modules with
time-division switching networks, the time-division
networks are assumed to be connected by inter-module
time-division junctions or inner-module junctions;
namely, the connection is made through the route of
the time-division switching network-time-division
(Research Methods--Communication Theory, TT, v. 8,
no. 6)
(over)

Office of Technical Services

Saito, Nobuji.

RICHARDS' THEOREM EXPANDED INTO A TWO-PAIR TERMINAL NETWORK. [1962] 10p. 6 refs.
Order from SLA \$1.10 62-14790

Trans. of [Denki Tsushin Gakkai Zasshi] (Japan)
1961, v. 44, no. 7, p. 1033-1036.

DESCRIPTORS: *Electrical networks, Synthesis,
Functions, Matrix algebra, Theory.

Richards' theorem is famous as introducing a key to Bott and Duffin's method for the synthesis of a two-terminal network without the use of mutual inductance. The present paper proves that by treating the expansion of Richards' theorem into a four-terminal network with a matrix, an almost identical theorem is obtained. On the basis of this proof a method solving a four-terminal network is proposed. This is an important step in the synthesis of a coupled-line wave (Engineering--Electrical, TT, v. 8, no. 9) (over)

62-14790

1. Title: Richards' theorem
1. Saito, N.

Office of Technical Services

Saito, Nobuji.

A COUPLED TRANSMISSION-LINE FILTER (DESIGN METHOD BY EXTRACTION OF COUPLED 2-WIRE LINES). [1962] 12p. 3 refs.
Order from SLA \$1.60

62-14789

Trans. of [Denki Tsushin Gakkai Zasshi] (Japan)
1961, v. 44, no. 7, p. 1036-1040.

DESCRIPTORS: *Transmission lines, *Coaxial filters, Design.

Consideration is given to the design of a coupled transmission-line filter, with distributed coupled transmission lines as its main element. Symmetrical and reciprocal circuits are explained by the method of extracting coupled transmission lines from the parameters of a given circuit. There is no need to devise a special function for the characteristic (Engineering--Electrical, TT, v. 8, no. 9) (over)

62-14789

I. Saito, N.
II. Title: Design ...

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Kawazu, S., Sugahara, A., and Ishii, H.
TRANSMISSION CHARACTERISTICS AND DESIGN
METHOD OF BRANCHING FILTER FOR MICROWAVE
RADIO RELAY SYSTEM. [1962] 25p. 15 refs.
Order from SLA \$2.60 62-16603

Trans. of [Denki Tsushin Gakkai Zasshi] (Japan) 1961,
v. 44, no. 8, p. 1207-1216.

DESCRIPTORS: *Microwave relay systems, *Radio
relay systems, Broadband, Frequency modulation,
Microwaves, Electric filters, *Waveguide filters,
Design, Wave transmission.

The transmission characteristics of a microwave
branching filter, of a form combining a hybrid circuit
with a 2-set filter system, are described in detail.
The effects of slight differences in these characteristics
(delay period, transmission loss, amount of coupling
(Engineering--Electronic, TT, v. 8, no. 6) (over)

62-16603

I. Kawazu, S.
II. Sugahara, A.
III. Ishii, H.

Office of Technical Services

Inose, Hiroshi, Yasuda, Yasuhiko and others.
SUBSCRIBER-LINE CIRCUIT FOR AN EXPERIMENTAL
TIME DIVISION EXCHANGE SYSTEM FEATURING
DELTA MODULATION TECHNIQUES. [1962] 19p.

3 refs.

Order from SLA \$1.60

62-18842

Trans. of [Denshi Tsushin Gakkaishi] (Japan) 1961,
v. 44, no. 9, p. 1322-1328.

DESCRIPTORS: *Telephone communication systems,
*Pulse modulation, Telephone equipment, *Modulators,
*Oscillators, Circuits, Signal-to-noise ratio.

A subscriber-line circuit was devised for the following
conditions: frame frequency, 50 kc/s; number of talking
channels, 19; number of synchronous channels, 1; the
time-slot for each channel, 1 μ s; width of channel
pulse, 0.5 μ s; height, 0.1 μ s. Each subscriber is
(Engineering--Electronics, TT, v. 10, no. 1) (over)

62-18842

I. Inose, H.
H. Yasuda, Y.

Office of Technical Services

Akimura, H.
REALISATION OPTIMUM D'UN SYSTEME DE COM-
MUTATION (Best Working out of a Commutation Sys-
tem). 28p. 11 refs. FX-1248 (text in French).
Order from OTS or ETC \$2.43 62-26305

Trans. in French from [Denki Tsushin Gakkai Zasshi]
(Japan) 1961, v. 44, no. 10.

DESCRIPTORS: *Commutators, *Telephone communi-
cation systems, Telephone cables, Theory.

(Engineering--Electronic, TT, v. 9, no. 8)

62-26305

I. Akimura, H.
II. FX-1248
III. Centre National de la
Recherche Scientifique
(France)

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JAPANESE, bk, Denko Tsushin Jigyo Yoran, 1957,
pp 1037-1112, publ by Telecommunications Association.

500th MI Sv (p Tr 9594-G
(EDC Jun 1958)

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Econ - Outline on Telecommunications Enterprise
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The Communication Association (Membership Roster).

JAPANESE, pamphlet, Denki Taushiki Kyokai, Apr 1957,
89 pp.

500th MI Sv Gp Tr 95944-C
(RDC Jun 1958)

FE - Japan
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The Oki Electric's All-Electronics Telephone
Exchange.

JAPANESE, per, Denki Kagaku Gakkaishi, publ by Oki
Company Ltd, 12 Sep 1957, pp 1295,1296.

500th MI Gp Tr 95855

Sci - Electronics

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Miura, Hiroyasu.
SOME NOTES ON ANTI-SIDETONE TELEPHONE
CIRCUITS. [1962] 24p. 4 refs.
Order from SLA 52.60

62-18093

Trans. of [Denki Tsushin Gakkai Zasshi] (Japan)
1961, v. 44, no. 9, p. 1328-1336.

DESCRIPTORS: *Communication equipment,
*Telephones, Circuits, Boosters, Impedance
bridges.

Starting from the basic circuit, an analysis is pre-
sented of the bridge and booster circuits in the case
of elements having complex impedance. By the
analysis the design for an anti-sidetone telephone
circuit became much more precise than in the case
wherein all the elements were considered to be pure
resistances.

(Engineering--Electrical, TT, v. 8, no. 9)

I. Miura, H.

Office of Technical Services

Inose, Hiroshi.
AN APPROXIMATE CALCULATION ON BLOCKING
PROBABILITIES OF A TRIANGULAR ALTERNATE
ROUTING SYSTEM. [1963] 16p. 2 refs.
Order from SLA \$1.60 63-14740

Trans. of [Denki Tsushin Gakkai Zasshi] (Japan)
1961, v. 44, no. 10, p. 1450-1456.

DESCRIPTORS: Mathematical analysis, *Probability,
*Telephone communication systems, Communication
theory, Differential equations.

In a triangular alternate routing system, where offices
A, B and C are disposed at vertices of a triangle,
blocking probabilities of calls on the A-B, B-C routes
are derived under the assumption of "No Hole in the
Multiple", the effect of this assumption on numerical
results of probabilities is discussed and finally a
(Research Methods--Communication Theory, TT, v. 10,
no. 5) (over)

63-14740

I. Inose, H.

Office of Technical Services

A Simplified Method of Obtaining Highest-System
Reliability, by Masafumi Sasaki, 19 pp.
JAPANESE, per, Denki Tsushin Gakkai Zasshi,
Vol XLV, No 2, 1962, pp 144-150. 9225318
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Sci-Engr
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An Experimental Push-Button Dialing System,
by Takuma Yakumamoto, Toshikhiko Nakamura, et al.
JAPANESE, per, Denki Tsushin Gakkaishi,
Vol XLV, No 5, 1962, p 641-647.
SLA TT 64-18603

Apr 67

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R-Line Method for Duotron Velocity
Tube Coupling Resonator, by T. Matsumoto,
M. Suzuki.

JAPANESE, per, Denki Tsushin Gakkai
Zasshi, Vol 45, No 8, pp 1086-1094, 1962

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Sci-Engr
Nov 65

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National Telephone Switching Plan, by
Satoshi Kojima, 24 pp.

JAPANESE, per, Denki Tsushin Gakkai Zasshi,
Vol XLV, No 11, 1962, pp 51-58.

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Sci - Engr
23 Nov 64

Surface Roughness and Effective Reflection
Coefficient of the Sea in 9Gc Band Wave
Propagation, by Takashi Marukawa, 11 pp.
JAPANESE, par, Danki Tsushin Gakki Zasshi,
Vol 45, No 8, 1962, pp 1071-1075. 944162866
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Sci - Navigation, Communications,
Detection and Countermeasures
Jan 67

On the Application of a Speech Clipper to
an SSB Radio Telephone System Using VODAS,
by Y. Tsuruoka

JAPANESE, per, Denko Tsushin Gakkai Zasshi,
Vol 45, No 9, 1962, pp 1211-1215.
NLL Ref: 6180.59 (1904)

Sci-Electronics
July 68

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