

62-14790

Salto, 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 ex-  
pansion 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 solv-  
ing 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)

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

C225941

Office of Technical Services

62-14789

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

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

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)

C225940

Office of Technical Services

Studies on Synthetic Analgesics, by N. Sugimoto,  
S. Saito, 12 pp.

JAPANESE, per, Yakugaku Zasshi (Journal of the  
Pharmaceutical Society of Japan), Vol LXXIII, No 7,  
Jul 1953, pp 757-760. CIA D 151210

NIH

Scientific - Chemistry

CRS 65/feb 1985

21,251

63-12617

Saito, H., Uda, K., and Abe, H.  
VISCOSITY STUDIES OF CELLULOSE ACETATE  
SOLUTIONS. PT. SEFFECT OF SOLVENTS AND THE  
DEGREE OF ACETYLATION ON THE VISCOSITY OF  
CONCENTRATED CELLULOSE ACETATE SOLUTIONS.  
[1962] 6p.  
Order from ATS \$8.00                      ATS-13P66j

Trans. of Sen-i Gakkaishi (Japan) 1962, v. 18, no. 3,  
p. 240-242.

DESCRIPTORS: \*Cellulose acetates, Solutions,  
Viscosity, Organic solvents, Acetylation.

(Materials--Plastics, TT, v. 9, no. 7)

- I. Saito, H.
- II. Uda, K.
- III. Abe, H.
- IV. Title: Effect . . .
- V. ATS-13P66j
- VI. Associated Technical  
Services, Inc., East  
Orange, N. J.

330420

Office of Technical Services

<p>Saito, Hisahiko; Sugihara, Makoto, and Saito, Minoru. FORMATION OF FERRITE MICROPOWDERS OF SPINEL TYPE. Studies on the Formation of Ferrites from Solutions, 1. [1963] 16p. 14 refs. Order from SLA \$1.60</p> <p>63-14499</p> <p>Trans. of [Kogyo Kagaku Zasshi] (Japan) 1962, v. 65, p. 1748-1753.</p> <p>DESCRIPTORS: *Ferrites, Powders, Solutions, Reaction kinetics, Synthesis (Chemistry), Physical chemistry, Hydrogen ion concentration.</p> <p>A method is given for forming numerous ferrite micro-powders of spinel type that were formerly difficult to obtain in the temperature range of 50 ~ 60°C to approximately 100°C. It was found that the concentration of excess alkali plays an important role in the formation (Chemistry--Physical, TT, v. 10, no. 11) (over)</p>	<p>63-14499</p> <p>I. Saito, H. II. Sugihara, M. III. Saito, M. IV. Title: Studies . . .</p> <p>63-14499</p> <p>Office of Technical Services</p>
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Conditions Governing the Phosphorus Reversion in  
Basic Oxygen LD Furnaces During the Tap, by  
T. Itaka, K. Saito, O. Muroga.

JAPANESE, per, Tetsu to Hagane, Vol XLIX, No 3,  
1963, pp 408-410.

HB 5935

Sci-Ingr

243,926

Dec 63

62-26979

Saito, Mistui and others.  
DECOMPOSITION DE L'HYDROPEROXYDE D'  $\alpha$ -PIN-  
ÈME SOUS DIFFÉRENTES CONDITIONS (Decomposi-  
tion of  $\alpha$ -Pinene Hydroperoxide under Different  
Conditions). 25p (foreign text included) 14 refs.  
Order from OTS, ETC or CNRS \$0.98 62-26979

Trans. in French of Kogyo Kagaku Zasshi (Japan) 1958,  
v. 61, p. 1220-1224.

DESCRIPTORS: \*Terpenes, Hydrogen compounds,  
\*Peroxides, Decomposition, Catalysts.

(Chemistry--Organic, TT, v. 10, no. 10)

1. Title: Pinene
- I. Saito
- II. Mistui
- III. Centre National de la  
Recherche Scientifique

Office of Technical Services

NCH-201 974

Field 20M

Saito, R.; Yamaki, H.  
EXPERIMENTAL STUDIES OF THE BOILING PHENOMENA  
(1) THE DENSITY DISTRIBUTION OF A STEAM WATER  
MIXTURE IN MULTIPLE RECTANGULAR CHANNELS,  
UNDER ATMOSPHERIC PRESSURE. 1965, 19p (foreign  
text included). NEL-Trans-1690.  
Order from NLL

Trans. of Nihon Genshiryoku Gakkaishi (Japan) v1 n1  
p40-5 1959.

I. National Engineering Lab.,  
East Kilbride (Scotland)



55

Reduction of Nitriles by U-Co-S Catalyst,  
by S. Saito  
JAPANESE, per, Nihon Kagakuishi Kyokai Zasshi,  
Vol 76, 1956, pp 351-352.  
ALL Ref: 9091.9P (Bislay 1412)

*S. Saito*

Sci-Chemistry  
Jul 68

350,704

TT-65-13828

Field 7A

Salto, S.; Ohta, N.  
CATALYTIC SYNTHESIS OF CYANOBENCES. I. VAPOR-  
PHASE CATALYTIC REACTION BETWEEN TOLUENE  
AND AMMONIA. 16p, 10refs.  
Order from SLA: \$1.60 as TT-65-13828

Trans. of Yuki Gosei Kagaku Kyokaiishi (Japan) v22 n5  
p394-400 1964.

I. Title: Vaporphase. . .

MR 666

Result of Treatment of Whooping Cough  
with Colaprin Via Injection and Inhalations,  
by Satoru Saito, Koichi Kame, Sp-  
JAPANESE, par, Shonka Rinsho, Vol 4,  
No 6, 1961,  
SLA TT-64-18637

~~Satoru~~ Satoru Saito

333, 639

Sci  
Jul 67

<p>Saito, Shuji. THE INTERACTION OF SYNTHETIC POLYMERS AND WETTING AGENTS. I. THE INTERACTION OF POLYELECTROLYTES AND WETTING AGENTS. II. COMPLEX FORMATION BETWEEN POLYMERS AND DETERGENT [Die Wechselwirkung Zwischen Synthetischen Polymeren und Netzmitteln. Teil I: Die Wechselwirkung Zwischen Polyelektrolyt und Netzmittel. Teil II: Komplexbildung Zwischen Polymeren und Detergent]. [1962] 21p. (figs. tables 39 refs. omitted) Order from SLA \$2.60 62-18250</p>	<p>62-18250</p> <p>I. Saito, S. II. Title: Comparison... III. Title: Complex...</p> <p>44 507 81</p> <p>Office of Technical Services</p>
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Trans. of Kolloid Zeitschrift (West Germany) 1954 [v. 137, no. 2/3] p. 93-103.

DESCRIPTORS: \*Electrolytes, \*Polymers, Acrylic acids, Carboxymethylcellulose, Vinyl radicals, Sulfates, Ions, Polyvinyl alcohol, Acetates, Detergents. Adsorption, \*Surface-active substances. (Chemistry, TT, v. 10, no. 2)

T. SAITO

Diffusion of Silicon and Manganese in Molten Iron  
(Supplement), by T. Saito.

JAPANESE, per, Bull Res Lab Mineral Dressing Met  
Tohoku Univ., No 12, 1956, pp 27-30.

\*AFIS TT 72-53142

Aug 72

T. SAITO

Effect of Minor Elements on Normal Grain Growth Rate in  
Singly Oriented Si-Steel, by T. Saito.

JAPANESE, per, J. Japan Inst Metals., No 27, 1963,  
pp 186-191.

\*NTIS TT 72-53140

Aug 72

R-5576-D

16 July 65

**Inflight Loss of Consciousness During Instrument Flying**

By: T. Saito

From: JAPANESE JOURNAL OF AIRSPACE MEDICINE & PSYCHOLOGY  
1964 No 2, pp 10-15 (6 pp)

Japanese - est. for wds:

Type an original copy only. (2 xerox copies) Include  
all figures and charts, etc.

Tastes Of Fishes - Fishery Products and Isosina Acid,  
by T. Saito.  
JAPANESE, per. Kagaku, Vol 15,  
1960, p 101  
QB 352/171 (Tables only)

T. SAITO

Sci -  
Sep 67

340,065



Application of the Heat Balance Method to Altitude  
Distribution of the Diffusion Coefficient and Vapor  
Diffusion in Plant Communities., by T. Saito.  
JAPANESE, per, Japan. Journal of Agricultural  
Meteorology, Vol. 17, No. 3, 1962, pp 101-105.  
CSIRO/No. 6888

*T. SAITO*

Sci -  
July 1967

334-658

The Effect of Oxygen Content on the Quality of Coils  
of Cold-Rolled Low-Carbon Rimmed Steel Sheet,  
by T. Saito et al. 71  
JAPANESE, per, Tetsu to Hagane, Vol 50, Iss 12,  
1964, pp 2091-2092.  
BISI 4979

T. Saito

Sci-Materials  
Sept 66

310,557

Effect of Minor Elements on Secondary  
Re-Crystallization in Singly-Oriented  
Silicon Steel, By T. Saito,  
JAPANESE, per, Nippon Kinzoku, Vol 27,  
No 4, 1963, pp 191-195.  
BISI 4008

FE-Japan  
Sci/M&M  
May 65

278,800

AEC-tr-4482(p.29-37)      Uncl.

UTILIZATION OF RADIOISOTOPES IN THE CHEMICAL  
INDUSTRY IN JAPAN.    T. Saito.

G-23    P    NSA

Second Japan Conference on  
Radioisotopes, Feb 1958

N-3

AEC-tr-4482(p.29-37) Uncl.

UTILIZATION OF RADIOISOTOPES IN THE CHEMICAL  
INDUSTRY IN JAPAN. T. Saito.

C-23 P NSA

*Second Japan Conference  
on Radioisotopes, Feb. 1958*

N-3

AEC-tr-4482(p.29-37) Uncl.

UTILIZATION OF RADIOISOTOPES IN THE CHEMICAL  
INDUSTRY IN JAPAN. T. Saito.

C-23 P NSA

*Second Japan Conference  
on Radioisotopes, Feb. 1958*

N-3

AEC-tr-4482(p.29-37) Uncl.

UTILIZATION OF RADIOISOTOPES IN THE CHEMICAL  
INDUSTRY IN JAPAN. T. Saito.

C-23 P NSA

*Second Japan Conference  
on Radioisotopes, Feb. 1958*

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Adenosinetriphosphate and Related Compounds  
in the Muscles of Aquatic Animals, by  
T. Saito.

JAPANESE, Japanese Society of Scientific  
Fisheries, Bulletin, Vol XXVII, No 5, 1961,  
pp 461-470.

NRC/Ref. C-4235

Sci-Biol

Aug 63

34,987



The Influence of Oxygen on the Properties of  
Iron and Steel, II. by Taichi Saito, 15 p.

JAPANESE, par, Tetsu to Hagane, 1951, Vol XXVII.  
No 5, pp 23-30.

SLA 60-10037

Sci  
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Vol III, No 2

113,605

Post-War Electric Industry in the Soviet Union,  
by Tamotsu Saito, 42 pp. UNCLASSIFIED

JAPANESE, bk, 26 Jun 1954, Encl to Report No  
IR-1067-54, 6004th Air Intel Sv Sq, 22 Sep 1954.  
CIA D 113994

AF 642813

USSR  
Economic

Feb 55 CTS/DEX

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Discussion Meeting on Development of New  
Weapons, by Tamotsu Saito, Yoshikata Sugumura,  
Shuichi Takahashi.

JAPANESE, per, Arms and Technique, No 1, 1962,  
pp 5-17.

319th MI Bn  
I-1477-A  
ID 21985455

*211, 056*

FE - Japan  
LA  
Econ, Mil  
18 Sept 62

On Electric Power in Agriculture in the USSR, by  
Saito, Tamotou, 24 pp. UNCLASSIFIED

JAPANESE, bk, Aug 1954, Encl to IR-~~151~~ 1217-54,  
Tokyo. CIA D-179567

AF 653008

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Apr 55 CTS

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63-17677

Saito, Toshio and Sato, Kazutoshi.  
AFTER-TREATMENT OF ETHYLENE AND  
 $\alpha$ -OLEFIN POLYMER PRODUCTS. July 63, 9p. 4 refs.  
Order from SA \$19.00 SA Code-P-55

Trans. of [published] Japanese patent 8595/1961, cl.  
26-B-11, appl. no. 29515/1957, 30 Nov 57, pub.  
24 June 61, by Mitsui Chemical Industry, Inc.

DESCRIPTORS: \*Polyethylene plastics, Processing,  
Ethylenes, Propenes, Polymerization, \*Ziegler  
catalysts, Separation, Solvents, \*Alcohols, Methanols,  
Ethanol.

(Materials--Plastics, TT, v. 10, no. 4)

- I. Saito, T.
- II. Sato, K.
- III. Patent (Japan) pub.  
36-8 595
- IV. SA Code-P-55
- V. Seizaburo Aoki (Japan)

Office of Technical Services

63-17673

Saito, Toshio and Nishio, Masao.  
AFTER-TREATMENT OF POLYETHYLENE POLYMER  
PRODUCT OF ZIEGLER PROCESS. July 63, 9p. 1 ref.  
Order from SA \$19.00 SA Code-P-53

Trans. of [published] Japanese patent 8938/1961,  
cl. 26-B-11, appl. no. 19213/1957, 5 Aug 57, pub.  
28 June 61, by Mitsui Chemical Industry, Inc.

DESCRIPTORS: \*Polyethylene plastics, Processing,  
Ethylenes, Polymerization, \*Ziegler catalysts,  
Separation, \*Surface-active substances, Alcohols.

(Materials--Plastics, TT, v. 10, no. 4)

- I. Saito, T.
- II. Nishio, M.
- III. Patent (Japan) pub.  
36-8 938
- IV. SA Code-P-53
- V. Seizaburo Aoki (Japan)

Office of Technical Services

Research Tests on Bulletproof Steel Plates  
(Report No 1) Bulletproof Qualities of Steel  
Plates Experimentally Manufactured in 1954, by  
Toshio Saito; Yukinosuke Takashima, 74 pp.

JAPANESE, rpt, Technical Research Institute of the  
Japanese Defense Agency, 14 Oct 1955, Encl to  
IR 2056-57, 6004th AISS.

AF 1110950

50,458

FE - Japan  
Econ - Research  
Aug 57

Elimination of Dissolved Nitrogen by Aluminum,  
by Tuneso Saito, Masuo Maruya, 19 p.

JAPANESE, par, Nihon Kinsoku Gakkai-Shi, Vol. XVII,  
No 1, pp 28-32/

SLA 60-10349

Sci  
Apr 60  
Vol III, No 3

112,049



The Production of Reactor-Grade Graphite, by  
Y. Saito, 7 pp.

JAPANESE, per, Tanso, Vol VII, No 1, 1958,  
pp 16-19. 9079908

NLL M.3284  
AEC NP-Tr-668

164, 893

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Aug 61

On the Elimination of the Edge Effect of Electrodes  
in the Breakdown of Solid Dielectrics, by Yukio  
Saito, 18 pp.

JAPANESE, per, Denki Gakkai Zasshi, Vol LVI, 1936,  
pp 1036-1041. 9089546

ASC SCL-T-420

Sci .. Electricity  
Jul 62  
List 70

204, 734

Acrylic Synthetic Fibers IV. Influence of Additives Upon the Potassium Persulfate-Sodium Bisulfite Redox Polymerisation Acrylonitrile, by Masamichi Katayama, Zenichi Saito, 11 pp.

JAPANESE, per, Kobunshi Kagaku, Vol XIII, No 129, 1956, pp 11-17.

SLA 60-183457

Sci  
Vol IV, No 11  
Jun 62

199, 297

Use of the Optical Model for the Analysis of  $n$ -p and  
p-p Scattering at High Energies, by V. G. Grishin,  
I. S. Saitov, I. V. Chuvilo, 7 pp.

RUSSIAN, per, Zhur Eksper i Teoret Fiz, Vol XXXIV,  
No 5, 1958, pp 1221-1229.

Amer Inst of Phys  
Sov Phys - JETP  
Vol VII (34), No 5

77,528

Sci - Phys  
Dec 58

Coatings for Patterns, by D. G. Saitsev,

RUSSIAN, per, Lit Profil, No 6, 1954, p 31.

26,767

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8s.Od.(1s.Od.)

Scientific - Chemistry

Sep 55 CTS

(DC-5965)

Insemination Experts Directly at the Enterprises,  
by H. Saivansko, 3 pp. OFFICIAL USE ONLY

CZECH, per, Nas Chov, Vol XXI, No 14, 16 Jul 1961,  
p 1.

JPRS 12012

ESur - Czechoslovakie  
Econ  
Feb 62

180,729

Salzmann, G.  
RING MODULATOR WITH INTEGRATED FILTERS.  
[1962] 32p. 10 refs.  
Order from SLA \$3.60                      62-16583

Trans. of Cables et Transmission (France) 1961,  
v. 15, no. 2, p. 148-159.

DESCRIPTORS: \*Modulators, \*Electric filters, Low-pass filters, Band-pass filters, Attenuation, Modulation, Impedance, Distortion, \*Multichannel telephone systems, Design

The studies by D. G. Tucker and J. Gensel on the functioning of modulators between complex impedances have shown that under certain conditions the overall attenuation loss of a configuration consisting of a ring modulator and filters, can be very low, even zero, - at least theoretically. However, the practical use of (Research Methods--Communication Theory, IT, v. 8, no. 6)                      (over)

62-16583

I. Salzmann, G.

C222866

Office of Technical Services

V  
Evaluation of Technical Data of Coking Plants and  
Blast Furnaces During the First Five-Year Plan, by  
Ladislav Sajch, Frantisek Vana, 31 pp.

CZECH, no per, Hutnicke Listy, Vol IX, No 6, Brno,  
Jun 1954, pp 321-327.

CIA/FDD U-8234

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EBur - Czechoslovakia  
Econ - Fuel and power

May 56/dex



Separation of Hafnium From Zirconium and  
Production of Pure Zirconium Dioxide, by  
N. P. Sajin, E. A. Popelyaeva.

RUSSIAN, paper P/634, Proceedings of Interna-  
tional Conference, on Peaceful Uses of Atomic  
Energy Held at Geneva, 8-20 Aug 1955, Vol VIII.

Internatl Conf -- UN

Sci - Nuclear Physics      45,924  
Apr 57                      CIA 1-669.9.162

Production of High Purity Metallic Bismuth, by N. P. Sajin, P. Y. Dulkina.

RUSSIAN, paper P/637, Proceedings of International Conference on Peaceful Uses of Atomic Energy Held at Geneva, 8-20 Aug 1955, Vol. IX.

Internati Conf -- UN

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Sci - Nuclear Physics  
Apr 57

CIA 1-669.9.162

<p>Sajo, I. INDICATOR SYSTEMS ON BASIS OF VANADIUM KOMPLEXONS. [1963] 7p 3refs Order from SLA \$1.10</p> <p>63-18157</p> <p>Trans. of Talanta (Gt. Brit.) 1963, v. 10, p. 493-497.</p> <p>DESCRIPTORS: *Chemical indicators, Dyes, *Vanadium compounds, Complex compounds, Volumetric analysis, Ethylenedinitrilo tetracetate.</p> <p>Quinquevalent vanadium is displaced from its EDTA complex by almost all ions which react with EDTA. The liberated vanadium can then give color reactions with many dyes, and this can be used to indicate the end- point in a complexometric titration. Many indicator systems can be devised on this basis, and the present paper deals with systems containing vanadium<sup>V</sup>, EDTA and diphenylcarbazone, pyrocatechol violet, carminic acid or morin. (Author) (Chemistry--Analytical, TT, v. 10, no. 12)</p>	<p>63-18157</p> <ol style="list-style-type: none"><li>1. Title: Diphenylcarbazone</li><li>2. Title: Pyrocatechol violet</li><li>3. Title: Carminic acid</li><li>4. Title: Morin</li></ol> <p>I. Sajo, I.</p> <p>000711</p> <p>Office of Technical Services</p>
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Rapid Analysis of Open-Hearth and Blast-Furnace  
Slags, by Istvan Sajo, 6 pp.

HUNGARIAN, per, Banyaszati Lapok, Vol V, No 1,  
1950, pp 68-70.

SLA 60-18822

Sci

Apr 61

146,148

92  
Determination of Molybdenum in Special Materials,  
by I. Sajo.  
GERMAN, per, Neue Hütte, Vol 12, No 8, 1967.  
pp 500-502.  
\*BISI 6251

Sci/Tat  
Mar 68

*I. Sajo*

Effect of Tannin on Experimental Pulmonary Edema, by  
J. Sajner.  
CZECH, per, Ceskoslovenska Fysiologia, vol. 9, 1960,  
pp. 298-299.  
NTC 70-16908-06E

*J. Sajner*

75  
New Information on the Rapid Analysis of  
Ores, Mineral and Silicates, by J. Sajo.  
HUNGARIAN, per, Acta Chimica, Vol 28,  
1961, pp 259-269.  
NTC 69-10880-07B

*J. Sajo*

Sci-Chem  
May 69

382,514

T. Sak

Studies on the Whole Nerve Action Potential  
and Summating Potential Recorded from  
Round Window, by T. Sak,  
JAPANESE, per. Me, Mimi, Hana, (Eye, Ear, Nose)  
Vol. 64, 1961, pp. 1765-1791



Studies on Application of Spray Dry Process. Part III. Spray-Drying of Peppermint Oil-Gum Arabic-Water Emulsion, by T. Saka.

JAPANESE, per, Kogyo Kagaku Zasshi, Vol 64, No 11, 1961, pp 1998-2001.  
NTC 69-11292-07A

*T. SAKA*

Sci-Chem  
July 69

386,988

Studies on Application of Spray Dry Process. Part II. Function of Protective Colloids in Powdered Flavor Manufacturing Process, by T. Saka. JAPANESE, per, Kogyo Kagaku Zasshi, Vol 64, No 11, 1961, pp 1995-1998. NTC 69-11294-07A

T. SAKA.

Sci-Chem  
July 69

386,989

Structure of Yubari Coal as Observed From Properties  
of Its Bitumen and Pseudo-Bitumen, by Tsutomu,  
Sakabe, Inoye, Katsuya, 38 pp.

JAPANESE, per, Henryo Kyokai-Shi, Vol XXXII,  
No 319, pp 610-630.

SLA 59-16355

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Jun 60

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Noro Hill, ~~JIXEX~~ by Kusaba Sakae, 331 pp.

JAPANESE, rpt, publ by MASU Book Store, Apr 1941.  
RDC - Mar 1956

500th MI Sv Gp  
Tr No 89907

FE - Japan  
Geographic

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Mar 56 CTB/DEK

Hydrogen Overvoltage and Corrosion Potential of  
Metallic Titanium (3). Reducing Power of Titanium  
Cathode: Electrolytic Reduction of Maleic to  
Succinic Acid, by Tajima and Sakae.

JAPANESE, Fer, J Electrochem Soc Japan, Vol XXIV,  
No 10, 1956, pp 461-466.

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Aug 58

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57  
Culture Media for the Cholera Bacteria (From  
Isolation to Confirmation), by Michi Sakagaki.  
JAPANESE, per, Modern Media [Special Publication],  
Vol 9, No 7, 10 July 1963, pages 6-11.  
Dept of Navy NIC 2320(a)

Sci/D & M  
February 1965

341,932

*Michi Sakagaki*

The Kinetics of Saponification of Vinyl Acetate-Methyl Acrylate Copolymers, by Ichiro Sakurada, Sakaguchi, Yasuyoshi, 23 pp.

JAPANESE, per, Kobunshi Kagaku, Vol XVII, No 170, 1960, pp 115-119.

SLA 60-18153

*203, 252*

Sci

Jun 62

The Kinetics of Saponification of Vinyl Acetate-Methyl Acrylate Copolymers, by Ichiro Sakurada, Sakaguchi, Yasuyoshi, IX 14 pp.

JAPANESE, par, Kobunshi Kagaku, Vol XVII, No 178, 1960, pp 115-119.

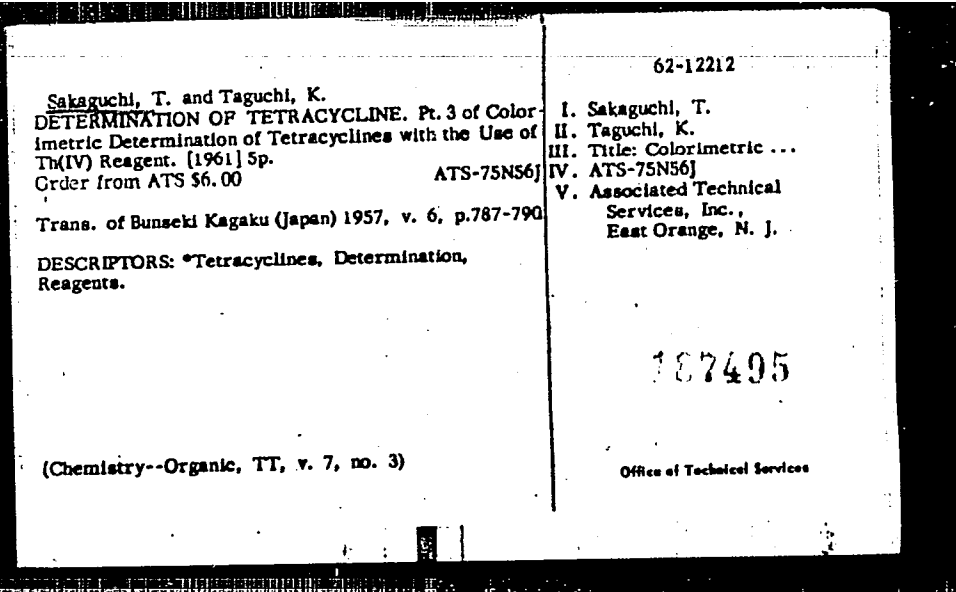
SLA 60-18153

*203, 252*

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Jan 62





Metal Chelate Compounds of Tetracycline Derivatives. Part V. Structure of the Aureomycin-Borate Complex, b. T. Sakaguchi, A. Hanaki, 6 pp.

JAPANESE, per, J Pharm Soc Japan, Vol LXXVI, No 2, 1956, pp 176-180.

Assoc Tech Sv -- 80811J

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SLA-58-311  
ATS-JJ-2252

70.415

The Detection of Native Protein With pH Indicators,  
by Morizo Ishidate, Takochi Sakaguchi, 14 pp.

GERMAN, par, Ber Dtsch ES Chem Ges, Vol LXXIVB,  
1941, pp 163-170.

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S.L.A. Tr 1076/1956

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Sci - Chemistry  
Oct 56 CES

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Metal Chelate Compounds of Tetracycline Deri-  
vatives, XI. Isolation and Properties of  
Tetracycline Metal Chelates, by T. Sakaguchi,  
K. Taguchi, 7 pp.

JAPANESE, per, Yakugaku Zasshi, Vol LXXIX,  
No 11, 1959, pp 1384-1385.

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Sci  
Feb 62  
Vol III, No 11

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Metal Chelate Compounds of Tetracycline Derivatives. Part IV. Colorimetric Determination of Aureomycin in Urine by the Borate Complex Procedure Using a Cation Exchange Resin, by T. Sakaguchi, A. Hanaki, 5 pp.

JAPANESE, per, J Pharm Soc Japan, Vol LXVI, No 2, 1956, pp 172-175.

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61-16539

Sakaguchi, Yasuyoshi and Ishizu, Inamuro.  
PREPARATION OF WATER-SOLUBLE DERIVATIVES  
OF STARCH BY CARBOXYMETHYLATION. [1961][11]p.  
8 refs.  
Order from SLA \$1.60 61-16539

Trans. of Sen-i Gakkaishi (Japan) 1958, v. 14, no. 11,  
p. 814-817.

DESCRIPTORS: \*Starches, Chloroacetic acids, Chem-  
ical reactions, Textiles.

Starch was reacted with monochloroacetic acid (CA) in  
the presence of NaOH. The effect of the nature of  
starches, composition of reaction mixtures, reaction  
temperature and time were examined, then it was  
observed that water soluble derivatives could be ob-  
tained using about 10g CA and about 10g NaOH for 100g  
starch. Products with etherification degree higher  
than about 0.1mole/base mole were soluble in cold  
water. Water soluble derivatives were also obtained  
(Chemistry--Organic, TT, v. 6, no. 5) (over)

- I. Title: Carboxymethylation
- I. Sakaguchi, Y.
- II. Ishizu, I.

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Sakaguchi, Y.  
STUDIES OF THE STERIC STRUCTURE OF HIGH  
POLYMERS. [1960] 7p.  
Order from ATS \$10.00

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Trans. of Kobunshi Kagaku (Japan) 1960, v. 17,  
no. 182, p. 333-336.

1. Polymers--Molecular structure
2. Title: Steric structure
- I. Sakaguchi, Y.
- II. ATS-32M47]
- III. Associated Technical Services, Inc., East Orange, N. J.

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(Materials--Plastics, TT, v. 5, no. 7)

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PREPARATION OF WATER-SOLUBLE DERIVATIVES  
OF STARCH BY REACTION WITH ACRYLONITRILE.  
[1961] 9p. 14 refs.

Order from SLA \$1.10

61-16538

Trans. of Sen-i Gakkaishi (Japan) 1958, v. 14, no. 11,  
p. 818-821.

DESCRIPTORS: \*Starches, \*Acrylonitriles, Chemical  
reactions, \*Ethers, Synthesis.

Starches were reacted with acrylonitrile in the co-  
presence of alkali. At this time, cyanoethyl etherifica-  
tion and saponification reaction of this ether to car-  
boxyethyl ether occurred. Under optimum conditions, a  
water-soluble ether could be obtained by using the  
nitrile and NaOH each in quantity of about 10% of the  
starch. The approximate composition necessary to ob-  
taining a water-soluble product was, a degree of car-  
(Chemistry--Organic, TT, v. 6, no. 6) (over)

61-16538

I. Sakaguchi, Y.

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Sakaguchi, Y.; Nishino, J.; Sakai, K.; Tsuda, M.  
POLYELECTROLYTIC BEHAVIOR OF COPOLYMERS OF  
MALEIC ANHYDRIDE AND STYRENE, VINYL ACETATE,  
AND VINYL BENZOATE. Apr 65, 5p, 8refs.  
Order from ICE in International Chemical Engineering,  
v5 n2

Trans. of Kobunshi Kagaku (Japan) v21 n235 p673-7 1964.  
Another trans. is available from ATS \$14.65 as ATS-13S81J.

I. American Institute of  
Chemical Engineers  
New York, N. Y.

<p>Sakaguchi, Yasuoichi; Nishino, Jun, and Nitta, Takayoshi. THE EFFECT OF ADDED SOLVENTS ON DEACETYLATION OF POLYVINYL ACETATE IN METHANOL. [1963] 10p. 9 refs. Order from SLA \$1.10</p>	<p>63-16418 I. Title: Deacetylation I. Sakaguchi, Y. II. Nishino, J. III. Nitta, T.</p>
<p>Trans. of Kobunshi Kagaku (Japan) 1963, v. 20, no. 213, p. 86-90.</p>	<p>A247291</p>
<p>DESCRIPTORS: *Vinyl radicals, *Acetyl radicals, *Acetates, Solvent action, Additives, Methanols, Catalysts, Reaction kinetics.</p>	<p>Office of Technical Services</p>
<p>Deacetylation of polyvinyl acetate was conducted in methanol using several types of acids or alkalis as catalyst, and the effect of the added solvents on the reaction velocity was studied. When a small amount of water was added to the reaction solution, the deacetylation velocity was increased. (Chemistry--Organic, TT, v. 10, no. 7) (over)</p>	

Use of Oxygen for Better Combustion in Blast-  
Furnace Stoves, in Conjunction With Oil  
Injection Into the Blast Furnace, by  
C. Sakai, et al.

JAPANESE, per, Tetsu to Hagane, Vol XLIX,  
No 3, 1963, pp 294-297.

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Mass Spectrometric Study of Rare Gases in  
Radioactive Minerals, by Hitoshi Sakai, 43 pp.  
JAPANESE, per, Mass Spectroscopy, Vol X,  
No 21, Oct 1962, pp 55-71. 9228587  
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Cystoic Acid Desulfhydrase of Avian Tubercle Bacilli,  
by F. Ito J. Sakai, M. Yusa, 13 pp.

JAPANESE, per Kekkai, (Tuberculosis), Vol XXX,  
No 10, Oct 1955, pp 569-573.

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Rapid Spectrophotometric Determination of  
Trace Iron in Boiler Water, by F. Nakashima,  
E. Sakai.  
JAPANESE, per, Bunseki Kagaku, Vol 11, No 1,  
1962, pp 73-77.  
MLL Ref: 6022.09 (4746)

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Paint For Rubber, by Kinjiro Sakai, 5pp.  
JAPANESE, Pub. 8581/1956, cl. 24 C 42  
appl. no. 17040/1954, 12 Aug 54, pub.  
5 Oct 56.  
CFSTI SA Code-P-305.

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Paint For rubber, by Kinjiro Sakai, Jpn.  
JAPANESE, Pub. 5531/1956, cl. 24 C 12  
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5 Oct 56.  
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Spectrophotometric Determination of Trace Amounts  
of Metals, by F. Hakashima, K. Sakai.

JAPANESE, rpt, Japan Analyst, Vol X, No 21, 1961.  
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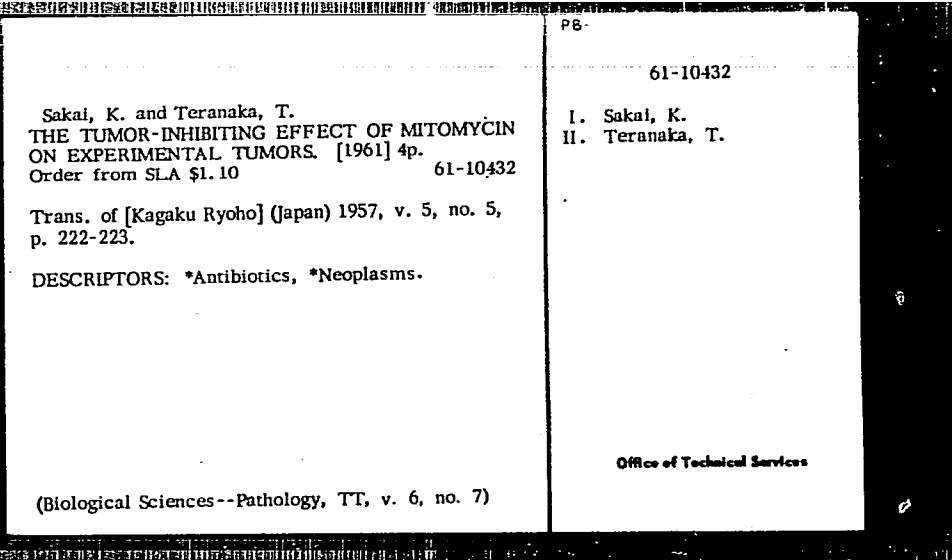
Spectrophotometric Determination of Trace Amounts  
of Metals, by F. Nakashima, K. Sakai.

JAPANESE, rpt Japan Analyst, Vol X, No 21, 1961,  
pp 89-93.

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Physicochemical Studies on Fused Salts.  
III. the Electroconductivity of the Mixed  
Fused Salts, (part 2), by K. Sakai,  
S. Hayashi, 9 pp.

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Pure Chem Sect, Vol LXXVI, 1955, pp 101-104.

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Hydrolysis of Titanium Sulfate Solution<sup>61</sup>  
by N. Sakai, K. Yoshikawa, N. Suzuki,  
S. Kobashi.

JAPANESE, per, Kogyo Kagaku Zasshi, Vol  
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NTC 69-10683-078

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A Direct Spinning and Drawing of Nylon  
Filaments, by S. Uetani, R. Sakai.  
JAPANESE, Patent 280 40-19 508  
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Properties of Fused Salts. II.  
Electric Conductivity of  $\text{MX}$  a Mixed Salt (part 1),  
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Section, Vol LXXV, 1954, pp 186-189.

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Physico-Chemical Properties of Fused Salts. I.  
Electric Conductivity of Simple Salts. II.  
Electric Conductivity of Mixed Salts (Part 1), by  
Kaoru Sakai, 23 pp.

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Vol LXXV, 1954, pp 182-189.

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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

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Possible Band Structures in Nuclear Levels,  
by Mitsuo Sakai, 18 pp.

RUSSIAN, rpt, PP 66-74. 9215566

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<p><u>Sakai, Toshikazu, Ikeda, Tsuguo, Chiba, Takeo and others.</u> ON TEST OF ATMOSPHERIC CORROSION RESISTANCE OF FUJI COR-TEN STEEL., PT. 2. [20 Jan 64] [23p] Order from SLA \$2.60 TT-64-14315</p> <p>Trans. of [Fuji Seitetsu Gihō] (Japan) 1963, v. 12, no. 21, p. 143-154.</p> <p>DESCRIPTORS: *Steel, *Corrosion inhibitors, Atmosphere, Surfaces, Corrosion</p> <p>(Metallurgy--Corrosion, TT, v. 11, no. 7)</p>	<p>TT-64-14315</p> <p>I. Title: Corten steel I. Sakai, T. II. Ikeda, T. III. Chiba, T.</p> <p>4273503</p> <p>Office of Technical Services</p>
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OF NEWLY INDEPENDENT NATIONS, BY SANAKI TOSHIO,  
9 pp.

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