

Sandstede, G. and Robens, E.
GRAVIMETRIC DETERMINATION OF GAS SORPTION
BY MEANS OF AN ELECTRONIC THERMOBALANCE.
14p 9refs.
Order from SLA \$1.60 TT-64-18006

Trans. of ~~Chemie-Ingenieur-Technik~~ (West Germany)
1960, v. 32, no. 6, p. 413-417.

(Engineering--Chemical, TT, v. 12, no. 4)

TT-64-18006

I. Sandstede, G.
II. Robens, E.

Office of Technical Services

The Sixth Transitory Law, by W. Beil.
GERMAN, per, Chemie-Ingenieur-Technik, Vol 32,
1960, pp 503-504.
NTC 71-14283-05D

March 72

Extractive Distillation of a System With an
Azeotropic Point and a Miscibility Gap, by
K. Kummerle.

GERMAN, per Chem.-Ing.Tech., Vol. 32, 1960

pp 513-517

GB 28

Sci -
Aug 67

338-389

Heat Transfer Measurements in Thin-film Evap-
orators, by K. Dieter.
GERMAN, per, Chemie-Ingenieur-Technik, Vol 38,
No 8, 1960, pp 521-524.
NTC 69-15417-07A

Sci-Chem
Dec 69

398,420

<p>Keller, H. CORROSION OF STEELS IN HOT GASES. [1960] 6p. Order from ATS \$7. 30 ATS-64M47G</p> <p>Trans. of Chem[ist]-Ing[enieur]-Tech[nik] (West Germany) 1960, v. 32, no. 9, p. 582-584.</p> <p style="text-align: center;"><i>148,640</i></p> <p>(Metallurgy--Ferrous Metals, TT, v. 5, no. 7)</p>	<p style="text-align: center;">61-12655</p> <ol style="list-style-type: none">1. Steel--Corrosion2. Gases--Corrosive effects3. Corrosion--Measurement <ol style="list-style-type: none">I. Keller, H.II. ATS-64M47GIII. Associated Technical Services, Inc., East Orange, N. J. <p style="text-align: center;"><i>ATE/...</i></p> <p style="text-align: center;">Office of Technical Services</p>
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Determination of the Heat Transfer From Ball Charges
to Circulating Gas by Means of the Material
Transfer Analogy, by C. B. Von der Decken, II
E. J. Mentke, et al, 15 pp.

CHRONIK, part, Chemie Ingenieur Technik, Vol XXVII,
1960, pp 592-594. 9202572

AKU-Tr-5533

AKU-5487

224,498

Sci - Phys

11 Mar 63

Continuous Measurement of the Concentration of
Solutions by Means of Bremsstrahlung From Low
Energy, Beta Emitters, by W. Kuhn, 9 pp.

GERMAN, per, Chemie-Ingenieur-Technik, Vol XXXII,
1960, pp 747-749. 9208264

AEC-ER-5707

Ref - Phys

Jun 63

234291

Production and Use of Heavy Water, by L. Kuchler,
37 pp.

GERMAN, per, Chemie-Ingr-Technik, Vol XXXII,
No 12, 1960, pp 773-781. 9079626

AEC NP-Tr-647

Sci
Aug 61

164, 884

<p>Steinhofer, A. and Frey, O. THE PRODUCTION OF ETHYLENE FROM CRUDE OIL IN A FLUIDIZED BED. [1961] 14p. Order from ATS \$21.90 ATS-81N51G</p>	<p>61-22920 I. Steinhofer, A. II. Frey, O. III. ATS-81N51G IV. Associated Technical Services, Inc., East Orange, N. J.</p>
<p>Trans. of Chem[el-Ing]enieur]-Tech[nik] (West Germany) 1960, v. 32, no. 12, p. 782-788.</p>	<p>ATS-741-GJ</p>
<p>DESCRIPTORS: *Ethylenes, Production, Petroleum, Chemical engineering, Oils, *Fluidized solids.</p>	<p>11115</p>
<p>(Engineering--Chemical, TT, v. 6, no. 4)</p>	<p>Office of Technical Services</p>

<p>Eisenlohr, K. -H. and Wirth, J. PROCESSES FOR THE PRODUCTION OF PURE AROMATICS FROM HYDROGENATION RAFFINATES AND REFORMATES. [1961] 14p. Order from ATS \$18.60 ATS-38N51G</p>	<p>61-25367</p>
<p>Trans. of Chem[ie]-Ing[enieur]-Technik (West Germany) 1960, v. 32, no. 12, p. 789-795.</p>	<p>I. Eisenlohr, K. -H. II. Wirth, J. III. ATS-38N51G IV. Associated Technical Services, Inc., East Orange, N. J.</p>
<p>DESCRIPTORS: *Benzenes, Production, Hydrogenation</p>	<p><i>ATS-1805-2J</i></p>
<p>(Chemistry--Organic, TT, v. 6, no. 11)</p>	<p>Office of Technical Services</p>

Large-Scale Slagging Producers of Gas for
Chemical Syntheses, by F. Duftscheidt.

GERMAN, per, Chemie-Ing-Techn., Vol XXXII,
No 12, 1960, pp 806-811.

Dept of Interior
TIT E57 No 422

Sci - Chem

Sep 61

168,529

61-20478

I. Hesky, H.

201437

Office of Technical Services

Hesky, Hans.
ONE-TOWER LOW PRESSURE ABSORPTION INSTALLATIONS FOR THE PRODUCTION OF NITRIC ACID FROM NITROSE GASES. [1961] [15p. 3 refs.
Order from SLA \$1.60 61-20478

Trans. of Chemie-Ingenieur-Technik (West Germany) 1961 [v. 33, no. 1] p. 27-31.

DESCRIPTORS: *Towers (Chemistry), Absorption, *Nitric acid, *Nitrogen compounds, *Gases, Production.

An absorption tower for low pressure conditions has been developed in which the tray spacing is greater in the upper part and the spaces between the trays are subdivided by perforated plates. As a result very (Engineering--Chemical, TT, v. 7, no. 8) (over)

Problems of Convective Mass Transport
in Electrolysis, by N. Ibl.
CZECH, per, Chemie-Ingenieur-Technik,
Vol 33, No 2, 1961, pp 69-74.
CEGB Trans 1145

Mar 72

62-18040

Vielstich, W.
THE DEPOSITION VOLTAGE OF HYDROGEN IN
THE ELECTROLYSIS OF AQUEOUS SOLUTIONS
WITH RANEY METAL ELECTRODES. 18 Apr 62
[18]p. 34 refs.
Order from SLA \$1.60 62-18040

Trans. of Chem[le]-Ing[enieur]-Tech[nik] (West
Germany) 1961, v. 33, p. 75-79.

DESCRIPTORS: Electrochemistry, Electrodeposition,
*Electrolysis, Nickel catalysts, *Hydrogen, Voltage,
Fuel cells, Electrolytic cells, Water, D.composition,
*Electrodes.

When using Raney nickel as catalyst, one obtains elec-
trodes with zero hydrogen overvoltage for the elec-
trolysis of alkaline solutions. In 27% KOH, at 80° C.
and 1500 amps/sq. m., the deviation from reversible
hydrogen potential with the double skeleton electrodes
(Chemistry--Physical, TT, v. 8, no. 9) (over)

I. Vielstich, W.

9
ALBERT T. F. SP...
...

Office of Technical Services

Heat Transfer and Flow Resistance of
Finned Tube Banks in Cross Flow,
by H. Brauer.
GERMAN, per, Chemie-Ingenieur-Technik,
1961, Vol 33, No 5, pp 327-335,
No 6, pp 431-448.
EISI 4255

Sci/MQH
Jul 65

284,682

63-16220

Heynert, Gerhard and Hedden, Kurt.
TEMPERATURE PROFILE AND KINETICS OF THE
CONVERSIONS IN THE BLAST FURNACE. [1963]
25p. (figs. tables) 35 refs.
Order from SLA \$2.60

63-16220

Trans. of Chemie-Ingenieur-Technik (West Germany)
1961, v. 33, no. 7, p. 469-478.

DESCRIPTORS: *Blast furnaces, Heat transfer,
Reaction kinetics, Temperature, Oxidation-reduction
reactions, Ores (Metal sources), Gases, Coke, Iron.

(Metallurgy, TT, v. 10, no. 5)

I. Heynert, G.
II. Hedden, K.

Office of Technical Services

TT-65-12425

Field 7A

Hunsmann, W.
BUTADIENE-1,3 AND BUTENE-1 SEPARATION THROUGH
AZEOTROPIC DISTILLATION WITH METHYLAMINE. 10p.
9 refs.
Order from SLA: \$1.10 as TT-65-12425

Trans. of ~~Chemie-Ingenieur-Technik~~ (West Germany)
v33 n5 p537-40 1961.

I. Hunsmann, W.

MR 633

Quantity and Behavior of the Intergranular
Moisture in Granular Materials, by W. Batel.

GERMAN, per, Chemie Ingenieur Technik, ~~XXXX~~
Vol XXXIII, No 8, 1961, pp 541-547.

GB/10/2778

Sci-ENGR
Jun 63

~~234,629~~
234,646

Wesslau, H.

CHAIN LENGTH DISTRIBUTION OF ALKYL CHAINS
IN THE CONTINUOUS ORGANOMETALLIC SYNTHESIS
REACTION AS AN EXAMPLE FOR THE CALCULATION
OF A REACTION IN THE CASCADE REACTOR. [1961] 5p.

Order from ATS \$7. 25

ATS-94N56G

Trans. of Chem[ie]-Ing[eneur]-Tech[nik] (West
Germany) 1961. v. 33, no. 8, p. 556-558.

DESCRIPTORS: *Metalorganic compounds, Synthesis,
Chemical reactions, *Alkyl radicals.

(Chemistry--Organic, TT, v. 7, no. 6)

62-12231

- I. Wesslau, H.
- II. ATS-94N56G
- III. Associated Technical
Services, Inc., East
Orange, N. J.

Office of Technical Services

Size Distribution of Gas Bubbles in Bubble
Columns. Part I: Influences of Liquid
Viscosity and Column Internal Pressure, by
H. Kolbel, et al.

GERMAN, per, Chemie-Ing Tech, Vol XXXIII,
No 10, 1961, pp 668-675.
Chem Trans Sv No 2660

Sci-Chem
Mar 67

320,876

Deuterium Exchange Between Hydrogen and Liquid
Ammonia With Potassium as Catalyst, by R. Haul,
H. Jhle, et al, 22 pp.

CHIMIE, per, Chimie-Ingenieur-Technik, Vol XXXIII,
No 11, 1961, pp 713-718. 9208815

AEC-REP-Tr-935

Sci - Nucl Sci

JUL 63

235,678

WALTER, S. and others. Enrichment of heavy water by high-pressure exchange between hydrogen and an aqueous catalyst-suspension. 2. Construction and operation of a semi-industrial trial plant. Chemie-Ingr-Tech. 34:7-10 (1962) (AAEC LIB/TRAN

Broich, Franz
OXIDATION REACTIONS IN PETROCHEMISTRY
PLENARY SESSION OF THE GERMAN CHEMICAL
SOC. MEETINGS, AACHEN, 22 Sep 62. [1962] 65p.
Order from K-H \$81.25 K-H 11777

Trans. of Chemie-Ing[enieur]-Techn[ik] (West
Germany) 1962, v. 34, no. 1, p. 45-61.
Another trans. is available from SLA \$7.60 as
62-18671 [1962] [72]p.

DESCRIPTORS: *Oxidation, Chemical reactions,
*Petroleum, *Chemistry, Germany, Scientific
organizations.

(Chemistry--Organic, TT, v. 9, no. 10)

63-12974

- I. Broich, F.
- II. K-H-11777-b
- III. Kresge-Hooker Science
Library Associates,
Detroit, Mich.

Office of Technical Services

State and Transport Properties of Argon Plasma, by
Klaus Penski,
GERMAN, per, Chemie-Ing Tech, No 34, 1962, pp 84-87.
*AFCRL

Sci/Chem
Oct 69

Mass Transfer of Gas/Liquid in a Stirred Tank,
by F. H. H. Valentin.
GERMAN, per, Chemie-Ingenieur-Technik, Vol 34,
1962, pp 194-198.
NTC-71-12696-07A

Nov 71

On the Rheology of Suspensions.

GERMAN, per, Chem-Ingr-Tech, Vol XXXIV, 1962,
pp 223-230.

Possibly to Come From Contacts
per 10 Dec 1962 memo
USIB INTERNAL USE ONLY

Sci - Chem

Dec 62

TT-65-12299

Field 7A

Helferich, F.
CALCULATION OF INDUSTRIAL, ION-EXCHANGING
COLUMNS. A CRITICAL INVESTIGATION ON THE THEO-
RETIC BASES AND METHODS. 32p, 116refs.
Order from SLA: \$3.60 as TT-65-12299

Trans. of Chemie-Ingenieur-Technik (West Germany)
v34 n4 p269-82 1962.

I. Helferich, F.
II. Title: Critical ...

MR 629

High-Efficiency Rectification Sieve Plates, by
E. Kirsbaum.
GERMAN, per, Chemie-Ingenieur-Technik, Vol 34,
1962, pp 283-292.
NTC-71-12694-07A

Nov 71

**Fully Automatic Evaluation in the Vacuum Spectro-
metric Analysis of Steel, by G. Graue, W. Lutherath,
et al.**

**GERMAN, per, Chemie-Ingenieur-Technik, Vol XIV,
No 4, 1962, pp 309-311.**

HB 5890

**Sci-M&I
May 63**

229,837

TT-64-10483

Jeltner, F.
VARIOUS SHAPES AND MATERIALS OF ELECTRODES FOR THE CHLORO-ALKALI ELECTROLYSIS. Paper presented to German Chemical Society, Section Applied Electrochemistry, Frankfurt/Main-Höchst, 5-6 Oct 61. [1963] [16p] 9 refs
Order from SLA \$1.60 TT-64-10483

I. Jeltner, F.
II. Title: German...

Trans. of Chemie-Ingenieur-Technik (West Germany) 1962, v. 34, no. 5, p. 353-357. (Abstract available)

DESCRIPTORS: *Electrochemistry, *Electrodes, *Anodes (Electrolytic cells), Design, Geometric forms, Materials, Electrolysis.

The choice and shape of anode-material was important for the development of the chloro-alkali electrolysis. Anodes made of noble metals and their alloys and also of magnetite did not become very important. Today, the anodes are almost exclusively made of graphite plates and
(Engineering-Chemical, TT, v. 11, no. 9) (over)

Office of Technical Services

TT-63-20467

Bauer, R.
CHLORATE ELECTROLYSIS. [1963] 10p 1ref
Order from SLA \$1.10 TT-63-20467

I. Bauer, R.

Trans. of Chemie-Ing[enieur]-Techn[ik] (West Germany)
1962, v. 34, no. 5, p. 376-[378]. (Abstract available)

DESCRIPTORS: *Electrochemistry, *Sodium compounds, Potassium compounds, *Chlorates, *Electrolysis, *Electrolytic cells, Electrodes, Design, Construction, Operation.

The development and the present status of chlorate electrolysis are described, and process techniques and apparatus are discussed which can increase current efficiency. (Author)

(Engineering--Chemical, TT, v. 11, no. 2)

Office of Technical Services

63-22486

Schon, G.
ELECTROSTATIC CHARGING PROCESSES AND THE
SPARK DANGER FROM THEM. [1963] 18p
Order from K-H \$18.00 K-H 12054

Trans. of ~~Chemie-Ingenieur-Technik~~ (West Germany)
1962, v. 34, no. 6, p. 432-436.

DESCRIPTORS: *Towers (Chemistry), *Static
electricity, Electric discharges, *Sparks.

(Engineering--Chemical, TT, y. 10, no. 11)

- I. Schon, G.
- II. K-H-12054
- III. Kresge-Hooker Science
Library Associates,
Detroit, Mich.

Office of Technical Services

Applicability of Dibutyl Ether for Preparation of
Irradiated/Nuclear Fuels by Means of Extraction,
by H. J. Born.

GERMAN, per, Chem Ing Tech, Vol XXXIV, Aug 1962,
pp 537-541.

UKAEA
Windscale Tr No 13
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Sci - Fuel s

Mar 63

Mixing of Liquids and Formation of Foam in
Grid-Type Plates, by A. Muetzenberg.
GERMAN, per, Chemie-Ingenieur-Technik, Vol 34,
1962, pp 542-546.
NTC-71-12697-07A

Nov 71

Heat Transfer in Finned Tube Bundles, by
W. Kast.
GERMAN, per, Chemie-Ing.-Techn, Vol 34,
No 8, 1962, pp 546-551.
BISI 4527

EE-Germany
Sci/NGM
Jan 66

294,635

Euler, J.
UNUSUAL METHODS FOR PRODUCING CURRENTS.
17 Jan 63, [17]p. 26 refs.
Order from SLA \$1.60

63-16407

I. Euler, J.

63-16407

Trans. of Chem[ie]-[ng[ineer]-Technik] (West Germany) 1962, v. 34, p. 567-571.

DESCRIPTORS: *Electric power production, Cesium, Vapors, Generators, Electrolytic cells, Sodium compounds, Mercury alloys, Thermoelectricity, Ferroelectricity, Electricity.

In addition to the much discussed thermionic and thermoelectric devices, fuel cells, magnetohydrodynamic generators, etc., there are a number of other, little known processes for the production of electrical energy. Some of these have been discussed. The best technical prospects are probably offered by the cesium vapor generator. The amalgam distillation according (Engineering--Electrical, IT, v. 10, no. 7) (over)

Office of Technical Services

Isotope Separation and Enrichment, by K. Eier,
W. Fischer, et al, 8 pp.

GERMAN, per, Chem Ingenieur Tech., Vol XXXIV,
1962, pp 580.

AEC-tr-5986

Sci-Ingr
Nov 63

241, 364

63-18434

Wöhlbier, H. and Reiser, W.
PROBLEMS IN THE BUNKERING OF MEDIUM AND
FINE-GRAIN LOOSE MATERIAL (Fragen der
Bunkerung von Mittel- und Feinkörnigem Schüttgut).
[1963] [19]p. (foreign text included) 16 refs.
Order from SLA \$1.60 63-18434

1. Title: Bunkers
I. Wöhlbier, H.
II. Reiser, W.

Trans. of Chem[ie]-Ing[enieur]-Tech[nik] (West
Germany) 1962, v. 34, p. 603-609.

DESCRIPTORS: Materials, *Storage, *Containers,
*Particles, Motion, Friction, Pressure, Separation,
Particle size, Moisture.

The investigations indicate connections between bunker
form, outlet opening and the loose material's proper-
ties. In addition, pressure distribution, bridge
formation and unmixing are discussed.

(Engineering--Chemical, TT, v. 10, no. 11)

Office of Technical Services

Pilot Plant for the Continuous Cultivation of
Microorganisms, by A. Flechter, 18 pp.

GERMAN, per, ~~EMM~~ Chemie Ingenieur Technik, Vol XXXIV,
no 10, 1962, pp 692-~~695~~ 696. 5208805

ABC-72-5648

Sci - Phys

SLA 63-18732

Jul 63

236,183

Schildknecht, H., Maas, K., and Kraus, W.
EXTREMELY PURE ORGANIC SUBSTANCES BY CONTINUOUS COLUMN CRYSTALLIZATION AND ZONE MELTING. [1962] 21p. (refs. omitted).
Order from SLA \$2.60

63-10904

Trans. of Chemie-Ingenieur-Technik (West Germany)
1962, v. 34, no. 10, p. 697-701.

DESCRIPTORS: Organic compounds, *Benzenes,
*Phenanthrines, Purification, *Crystallization, *Zone
melting, Towers (Chemistry).

With benzene as example, it is shown that column crystallization is superior to distillation for the preparation of pure liquids. Solid, crystallizing crude products, e.g. phenanthrene, can also be purified in this manner, using closed columns in a continuous process. Highest purity is subsequently achieved by means of directed crystallization procedures such as 'normal solidification' and zone melting. (Author)

63-10904

I. Schildknecht, H.
II. Maas, K.
III. Kraus, W.

(Engineering--Chemical, TT,
v. 10, no. 2)

Office of Technical Services

Flue Gas Monitoring of Industrial Plant With a
Process Photometer, by H. Hummel J. Ebert.
GERMAN, per, Chemie Ingenieur Technik,
Vol XXXIV, No 10, 1962, pp 704-708.
CEGB 3172

Sci - Engr
Apr 64

255,132

Apparatus for Automatic Gravimetric Measurement of
Gas Sorption, Particularly for Determination of
Specific Surface, and Pore Size, by G. Sandstede.
GERMAN, per, Chemie-Ingenieur-Technik, Vol 34, No 10,
1962, pp 708-713.
NTC-71-11438-07A

Nov 71

Lode, W., Dettmar, H.-K., and Marre, E.
DETERMINATION OF THE PARTICLE-SIZE DISTRIBUTION OF SUSPENDED WHITE PIGMENTS BY MEANS OF THE EXTINCTION SPECTRUM. [Apr 64] 10p

Order from ATS \$13.65

ATS-69R75G

Trans. of Chem[ist]-[ng[ineer]-Tech[nik] (West Germany) 1962, v. 34, no. 11, p. 782-786.

TT-64-22070

- I. Lode, W.
- II. Dettmar, H.-K.
- III. Marre, E.
- IV. ATS-69R75G
- V. Associated Technical Services, Inc., East Orange, N. J.

(Materials--Paints, TT, v. 12, no. 1)

Office of Technical Services

Investigation of the Separation by Centrifugal Forces
of Flowing Mixtures of Gas and Liquid, by K. Traube,
J. Vollradt.
GERMAN, per, Chem Ingen Technik, Vol XXXIV, No 12,
1962, pp 827-833.
AEC-Risley Tr 765

Sci
mar 65

Schmidt, H. J.
CALCULATIONS FOR THE HETEROGENEOUS FIRST
ORDER WALL REACTION IN CYLINDRICAL TUBES.
[1963] 5p 7refs
Order from SLA \$1.10

63-18948

Trans. of Chemie-Ingenieur-Technik (West
Germany) 1962, v. 34, p. 841-842.

DESCRIPTORS: Chemical reactions, *Reaction kinetics,
Diffusion, *Fluid flow, Pipes, Laminar flow, Special
functions, Mathematical analysis.

The theoretical precalculation of the influence of flow
and diffusion on the conversion in chemical reactions
up to the present has been successful in few cases. The
special cases solved so far for the case of the heteroge-
neous wall reaction of the first order in cylindrical flow
reactors are briefly compiled. The detailed calculations
(Chemistry--Physical, TT, v. 10, no. 11) (over)

63-18948

I. Schmidt, H. J.

Office of Technical Services

The Importance of Sigma-Phase Embrittlement in
Chromium and Chromium-Nickel Steels Used for
Chemical Plant Manufacture, by K. Richard,
G. Petrich.
GERMAN, per, Chemie-Ingenieur-Technik, No 1, 1963,
pp 29-36.
BISI 3582

Sci - Chem
Apr 64

255,082

Heat Transfer With Drop Condensation, by W. Kast,
14 pp.
GERMAN, per, Chemie-Ingenieur-Technik, Vol XXXI,
No 3, 1963, pp 163-168. 9225397
ACBIL/64/327

Sci - Phys
May 65

280,364

K. Hoffman

Moisture measurement by infrared reflection
GERMAN, per, Chemie-Ingenieur-Technik, Vol 34, 1963
**NASA TT F-14333*

july 72

New Developments in Chlorine Electrolysis
by the Mercury Process and in the Liquefaction
of Chlorine, by H. Schmidt, F. Holzinger.
GERMAN, per, Chemie-Ingenieur-Technik, Vol 35,
No 1, 1963, pp 37-44.
SLA TT-66-10327

Sci-Chem
Aug 66

308,475

K. Hoffman

Humidity measurement by means of infrared reflection. 27 pp.

RUSSIAN, Chem.-Ing-Tech, Vol 35, No 1, 1963
pp 55-62

NASA TT F 14,333

oct 72

Distribution of Pressure in Gas-Currents in Gas-
Fluidising Beds, by H. Reuter.
GERMAN, per, Chemis-Ingenieur-Technik, Vol XXXV,
No 2, 1963, pp 98-103.
CSIRO No 6572

Sci - Chem
Apr 64

257,259

Influence of Surface Phenomena on Mass Transfer Coefficient
in Liquid-Liquid Extraction, by H. Sawistowski.
GERMAN, per Chemie-Ingenieur-Technik. Vol. 55, No. 5,
1963, pp 175-179
GB 345

Sci -
Sep 67

339-734

TT-63-20315

Kolbe, E. and Brandmair, F.
DEVELOPMENTS IN ADIABATIC ABSORPTION OF
HYDROGEN CHLORIDE AND HYDROGEN FLUORIDE.
[1963] 17p (figs omitted) 12refs
Order from SLA \$1.60

TT-63-20315

I. Kolbe, E.
II. Brandmair, F.

Trans. of Chemisch-Industrielle-Technik (West Germany)
1963, v. 35, no. 4, p. 262-266. (Abstract available)

DESCRIPTORS: *Towers (Chemistry), Design,
*Hydrochloric acid, Manufacturing methods, *Hydrogen
compounds, *Chlorides, *Fluorides, Absorption
(Physical)

The production methods, and the corresponding manu-
facturing plant, using carbon materials for the appara-
tus for the adiabatic absorption of hydrogen chloride,
are described. Two newly developed processes are de-
scribed, which include adiabatic hydrogen chloride ab-
sorption as an essential step. One of these permits the
(Engineering--Chemical, TT, v. 11, no. 2) (over)

Office of Technical Services

Ziegler, K.
ELECTROCHEMICAL SYNTHESIS OF METAL
ALKYLS. 13p
Order from ATS \$19.45 ATS-03R75G

Trans. of Chem[ist]-Ing[enieur]-Tech[nik] (West
Germany) 1963, v. 35, no. 5, p. 325-331.
Another trans. is available from SLA \$1.60 as
TT-64-16331, 18p.

Chem. Trans. 32 3168

(Chemistry--Organic, TT, v. 12, no. 5)

65-18156
TT-64-22286

- 64-16331*
- I. Ziegler, K.
 - II. ATS-03R75G
 - III. Associated Technical
Services, Inc.,
East Orange, N. J.

Office of Technical Services

Vetter, K. J.
THEORETICAL EXPERIMENTAL MEANS FOR THE
ELUCIDATION OF ELECTROCHEMICAL SYNTHESIS
REACTIONS. [1963] [59p] 47 refs
Order from SLA \$5.60 TT-63-20602

Trans. of Chemie-Ingenieur-Technik (West Germany)
1963, v. 35, p. 343-352. (Abstract available)

DESCRIPTORS: *Electrochemistry, Synthesis (Chem-
istry), Chemical reactions, Electrodes, Electric poten-
tial, Electric currents, Anodes, Cathodes, Oxidation-
reduction reactions, Reaction kinetics

Anodic and cathodic electrochemical reaction series
were determined from the concentration dependence of
the transfer over-voltage or the exchange current den-
sity. By means of these quantitative factors, the trans-
fer reaction, and, therefore, the excess charge at the
phase-boundary, were determined. The chemical reac-
(Chemistry--Physical, TT, v. 11, no. 3) (over)

TT-63-20602

I. Vetter, K. J.

Office of Technical Services

Electrochemical Oxidation of Methyl Alcohol.
by W. Vialstich,
GERMAN, per, Chemie Ingenieurtechnik, Vol
XXXV, No 5, 1963, PP 362-367.
ACSI J-1717
ID 2204005267

Sci-Chem
May 67

326,834

Fuel for Fuel Cells, by N. Bide,
ZEBODAG, Ber. Chem-Ingenuer-Technik, Vol
XXXV, No 5, 1963, pp 367-371, 37b.
ACSI J-1877
ID 2264010567

Sci-Prop & Fuels
Apr 67

521,495

Formation and Migration of Discontinuities in the
Solids Concentration in Suspensions, by P.
Grassmann.
GERMAN, per, Chemie-Ingenieur-Technik, Vol 35, pp
7, 1963, pp 477-482.
(SACSIR/Ref: 382)

Sci -
Aug 67

339,907

Preparative Thin-Layer Chromatography,
by R. Halpamp
GERMAN, per, Chemie Ing. Techn. Vol 35, No 7,
1963, pp 488-493.
NLL Ref: 5828.4F (12725)

Sci-Chemistry
Jul 68

360,770

ACCIDENTS WITH AUTOCLAVES. [1964] 2p
Order from ATS \$2.00 ATS-01R75G

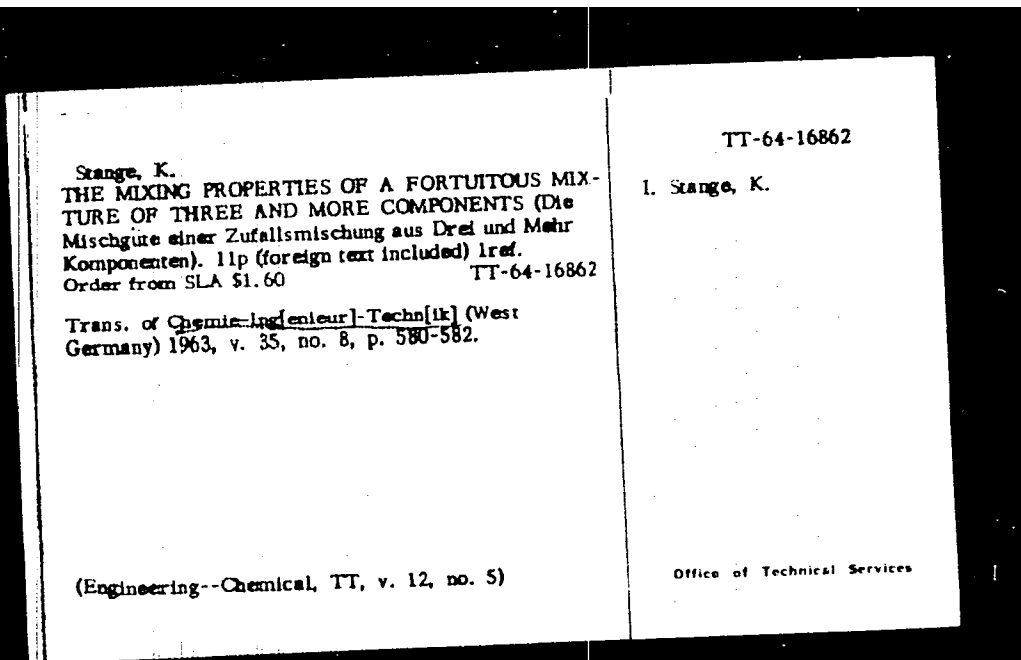
Trans. from Chem[ie]-Ing[enieur]-Tech[nik] (West
Germany) 1963, v. 35, no. 7, p. 542.

TT-64-12779

- I. ATS-01R75G
- II. Associated Technical
Services, Inc.,
East Orange, N. J.

(Engineering--Chemical, TT, v. 11, no. 12)

Office of Technical Services



Stange, K.
THE MIXING PROPERTIES OF A FORTUITOUS MIX-
TURE OF THREE AND MORE COMPONENTS (Die
Mischgüte einer Zufallsmischung aus Drei und Mehr
Komponenten). 11p (foreign text included) 1ref.
Order from SLA \$1.60 TT-64-16862

Trans. of ~~Chemie-Ing[enieur]-Techn[ik]~~ (West
Germany) 1963, v. 35, no. 8, p. 580-582.

(Engineering--Chemical, TT, v. 12, no. 5)

TT-64-16862

I. Stange, K.

Office of Technical Services

TT-64-18081

Haul, R. and Dömbgen, G.
SIMPLIFIED METHOD FOR THE MEASUREMENT OF
SURFACE AREA BY GAS ADSORPTION, REPT. 2
(Vereinfachte Methode zur Messung von Oberflächen-
größe durch Gasadsorption. 2. Mitteilung) 1963
foreign text included) refs.
Order from SLA \$1.60

I. Haul, R.
II. Dömbgen, G.

TT-64-18081

Trans. of Chemie-Ingenieur-Technik (West Germany)
1963, v. 35, no. 8, p. 586-589.
Another trans. is available from ATIS \$10.50 as
ATS-0EQ73G (9)p.

(Chemistry--Physical, TT, v. 12, no. 4)

Office of Technical Services

Thermydynamic Plasma Calculations, by
K. K. Neumann.
GERMAN, per, Chemie-Ingenieur-Technik, Vol 35,
1963, pp 631-637.
NTC-71-12561-07D
Case 11 F 10, 326

Nov 71

TT-64-16978

Schildknecht, H. and Schlegelmilch, F.
NORMAL SOLIDIFICATION FOR THE ENRICHMENT
AND PURIFICATION OF ORGANIC AND INORGANIC
COMPOUNDS 9p 10refs.
Order from SLA \$1.10

TT-64-16978

I. Schildknecht, H.
II. Schlegelmilch, F.

Trans. of Chem[ist]-Ing[enieur]-Tech[nik] (West
Germany) 1963, v. 35 [no. 9] p. 637-640.

(Engineering--Chemical, TT, v. 12, no. 5)

Office of Technical Services

Investigations on the Abrasion of Plastics and
Metals, by H. Brauer, E. Kriegel.
GERMAN, per, Chemie-Ingenieur-Technik, Vol XXXV,
1963, pp 697-707.
*BISI 3615

Sci - M/M
Aug 64

TT-65-11959

Field 7A

Fast, W.
RESEARCH ON HEAT TRANSFER IN BUBBLE COLUMNS.
9p, 6refs.
Order from SL 1: \$1.10 as TT-65-11959

Trans. of Chemie-Ingenieur-Technik (West Germany)
v35 n11 p785-8 1963.

TT-65-11959

I. Fast, W.

MR 622

Axial Mixing in a Rotating-Disk Extraction
Column, by S. Stemerding, E. C. Lumb,
J. Lips, 16pp.

GERMAN, per, Chemie-Ingenieur-Technik,
Vol 35, No 12, 1963, pp 844-850.
CFSTI ATS-75R76G.

NTC 71-15253-07A

322,611

Sci - Electronics &
Electrical Engineering

Mar 67

Flame Velocity and Combustion Mechanism of
Chlorinated Hydrocarbons, by B. Kaesche-Krischer
GERMAN, per, Chemie-Ingenieur-Technik, Vol 35,
1963, pp 856-860
NTG 71-15261-07D

TC-222

mar 72

Liquid Atomization by Slinger Disks, by Hermann Hege,
21 pp.
GERMAN, per, Chemie Ingenieur Technik, Vol XXXVI,
No 1, 1964, pp 52-59. 9223517
AEC-ORNL-Tr-136

Sci-Chem
Sep 64

267,332

Effect of Compositional Variations on Corrosion-Resistance of Stainless Nickel-Chromium and High-Chromium Steels, by I. Class.

GERMAN, per, Chem Ing Techn, Vol XXXVI, No 2, 1964, pp 131-147.

BISI 3935

**Sci-Engr
Feb 65**

274,545

Pelletizing of Fine Ores, by P. H. Kausch.
GERMANY, per, Chem. Ing. Tech., 1964, (5),
245-252.
*BISI 4097

Sci/Met & Mat
Mar 65

Ceramic Lined Scrubbers and Acid Towers,
by F. Falcke.
GERMAN, per, Chemie Ingenieur Technik, Vol XXXVI,
No 4, 1964, pp 325-330.
BISI 3874

Sci-Engr
Feb 65

274,577

Ventilation Characteristics of Fume-cupboards, by H.
Beck.

GERMAN, per, Chemie-Ingenieur-Technik, No 5, 1964,
pp 455-460.

CSIRO/No. 7274

Sci -
Aug 67

334,884

Mathematical Representation of Particle
Size Distributions and Calculation of
Specific Surface Areas, by H. Rumpf. 28p.

GERMAN, per, Chemie-Ingenieur-Technik,
Vol 36, No 5, 1964, pp 523-537.

ATS-73882G

AEC-ORNL-TR-272

Sci-Chem
Sept 66

303,861

Improved Austenitic Stainless Steels for the
Chemical Industry, by I. Class, H. Jesper.
GERMAN, per, Chemie-Ingenieur-Technik, No 30,
1964, pp 52-546
GB 245

Sci-
Aug 67

336,457

Improved Austenitic Stainless Steels for the Chemical
Industry, by I. Class, H. Jesper.
GERMAN, per, Chemie-Ingenieur-Technik, Vol XXXVI,
1964, pp 546-552.
BISI 3862

Sci-M/M
Feb 65

274,583

Electrolytic Metal Powder, by N. Ibl.
GERMAN, per, Chem Ing Tech, Vol 36, No 6,
1964, pp 601-612.
O. A. Trans. 915

Sci-Elec
Dec 70

Combined Preparation of Tetraethyl Lead and
Tetraethyl Lead, by H. Lehmkuhl.

GERMAN, per, Chem Ing. Tech., Vol 36, 1964,
pp 612-616.

Chem Trans Sv 3167

Sci - Chemistry

Apr 67

325,271

Zinc-Electrolysis, by H. Weigel.
GERMAN, per, Chemie Ingenieur Technik, Vol 36,
No 6, 1964, pp 656 - 659
EZ

Sci -
Jul 67

334,153

The Significance of Nucleating and Non-Stationary
Heat Transfer in Heat Exchange During Bubble
Evaporation and Droplet Condensation, by S. KAST.
CHEMISTRY, Proc. Chem. Ind. Techn., Vol XXXVI, No 9,
1964, pp 935-946.
*WASH TT F-9420

Sci-Phys
Aug 68
U.S. GOVERNMENT ONLY

Bio Lab. T-522-1

R-8558-D

3 Aug 67

Die ^{ph}-Kontrolle in der mikrobiologischen Verfahrenstechn-
ik

By: A. Flechter, et al.

From: Chemie-Ing.-Techn. 36, No. 10 pp 1000-4, 1964

German - est for wds:

(5 pp)

Please translate and type 1 camera ready copy.
Document can be cut. Please make cover as sample
attached. T-522-1

Pelletizing of Ore Fines, by H. Kausch.
GERMAN, per, Chemie Ingenieur Techn.
Vol 36, No 10, 1964, pp 1011-1019.
BISI 4097

Sci/MGM
Nov 65

292,054

Production and Use of Solid and Fluid Organic
Polysulfide Polymers, by L. Hockenberger.
GERMAN, per, Chemie-Ingenieur-Technik, Vol 36,
No 10, 1964, pp 1046-1050.
SLA TT-66-10326

Sci-Chem
Aug 66

308,474

GERMAN, per, Chemie fuer Labor und Betrieb, Vol II,
1959, pp 133-143.

*AFRS R-536 for Army Rocket
& Guided Missile Agency

Apr 61

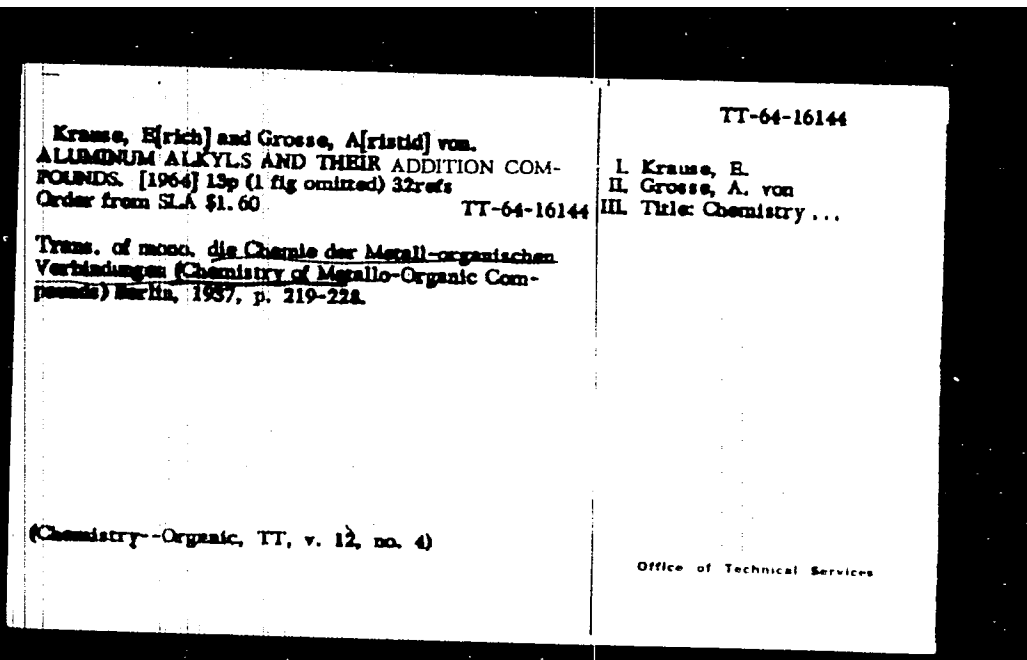
Sub-Oxide of Low Temperature Oxidation of Molybdenum
and Tungsten, by C. Brauer, H. Müller, G. H. Hines.

GENERAL, per, Chemisches Laboratorium der Universität
Freiburg im Breisgau.

*AEC

Sci - Chem

Jul 62



Krause, E[rich] and Grosse, A[ristid] von.
ALUMINUM ALKYLs AND THEIR ADDITION COM-
POUNDS. [1964] 13p (1 fig omitted) 32refs
Order from SLA \$1.60

TT-64-16144

Trans. of mono. die Chemie der Metall-organischen
Verbindungen (Chemistry of Metallo-Organic Com-
pounds) Berlin, 1957, p. 219-228.

(Chemistry--Organic, TT, v. 12, no. 4)

TT-64-16144

- I. Krause, E.
- II. Grosse, A. von
- III. Title: Chemistry ...

Office of Technical Services

Krause, Erich and Grosse, Aristid von.
THE CHEMISTRY OF THE METAL-ORGANIC COM-
POUNDS: LEAD. [1963] [63]p. 178 refs.
Order from SLA \$6.60

63-16020

Trans. of mono. Die Chemie der Metall-Organischen
Verbindungen [Berlin, 1937] p. 372-427.

DESCRIPTORS: *Metalorganic compounds, *Lead com-
pounds, *Alkyl radicals, Cyclohexanes, *Aryl radicals,
*Phenyl radicals, *Bitolyls, *Halides, *Methanes,
Fatty acids, Chemical properties, Physical properties,
Chemical reactions.

(Chemistry--Organic, TT, v. 10, no. 5)

63-16020

- I. Krause, E.
- II. Grosse, A. von
- III. Title: Lead

Office of Technical Services

Krause, Erich and Grosse, Aristide von.
GENERAL PROPERTIES, THEORY, AND SYSTEM-
ATOLOGY OF THE ORGANOMETALLIC COMPOUNDS.
[1964] [67p] (7 figs omitted) 35refs
Order from SLA \$6.60

TT-64-16152

Trans. of mono. die Chemie der Metall-organischen
Verbindungen (Chemistry of Metallo-organic Compounds)
Berlin, 1937, chap 9, p. 723-765.

(Chemistry--Organic, TT, v. 12, no. 4)

TT-64-16152

- I. Krause, E.
- II. Grosse, A. von
- III. Title: Chemistry ...

Office of Technical Services

The Linkage of Atoms in Hydrides, by J. Tomiska, 8 pp.

CZECH, par, Chemie Prague, pp 200, 201.

SIA Tr 2828

Sci - Nuclear Physics
Jan 58

58,203

NTC

CHEMIE. PRAGUE. (V1-10; 1949-1958)
1958 V10 P766-777 06-14810 <*>

Esters of Titanium in Lacquer Techniques, by Josef
Rozan.

CZECH, per, Chemie, Praha, Vol IV, 1948, pp 55k 179.

*ATIC

Sci - Chem

Jun 57

Qualitative and ^{ntj}Quantitative Reactions for Detection of
Porphyrins, by H. Fischer, H. Orth, 8 pp.

GERMAN, part of Book: Die Chemie des Pyrrols, Vol II,
Pt 1, 1940, pp 579-585.

SLA 58-515

Sci

Aug 59

95,077

A New Oxidation-reduction Volumetric Reagent,
by A. Berka.
CZECH, par, Chemie Svazek, Vol 10, 1958,
pp 543-546.
MIT/Lin Lab
(21)-AZT-69-508-CZLL
Available NTC

Jan 70

400,317

**A New Oxidation-Reduction Volumetric Reagent,
by J. Vulterin.**

**CZECH, per, Chemie Svazek, Vol 10, 1958,
pp 869-878.**

**MIT/Lin Lab
(20)-AZT-69-507-CZII.
Available NTC**

Jan 70

400,316

The Chemistry and Technolgooy of Urea Resins,
Critique and Rebuttal, by Hanus,
GERMAN, rpt, Zur Chemie un f Technologie
der Harnstiffharze. Zuschrift und Erwiderung,
9 pp.

Dept of Modern Languages
N. C. State Univ at Raleigh

Apr 67

522,905

Chemistry and Technology of Urea Resins: Second Report:
Urea-Formaldehyde Condensation in Alcohol Solvents, by
H. Fahrenhorst, 31 pp.

GERMAN, rpt, Chemie und Technologie der Harnstoffharze
2. Mitteilung: Die Harnstoff-Formaldehyd-Kondensation
in Alkoholischen Lösungsmitteln.

Dept of Modern Languages
North Carolina State College

Sci
Feb 64

[Scheiber, Johannes]:
CONDENSATION RESINS. 28 Nov 61, 2p. 16 refs.
Order from SLA \$1.10 63-10893

Trans. from mono. *Chemie und Technologie der
Kunstlichen Harze (Chemistry and Technology of
Synthetic Resins)* [Stuttgart, 1943] p. 532.
Complete foreign text available from SLA mi\$6.00,
ph\$67.00, 667p.

DESCRIPTORS: Plastics, Condensation, *Molding
materials, *Phenolic plastics, Power equipment parts.

(Materials--Plastics, TT, v. 10, no. 2)

63-10893

I. Scheiber, J.
II. Title: Chemistry...

Office of Technical Services

New Oxidation Inhibitors for Jet Fuels and Additives for Increasing the Thermal Stability of Jet Fuels, by F. N. Masitowa, Ja. M. Pauschkin,

GERMAN, per, Chemie und Technologie der Treibstoffe und Schmierfette, No 11, 1958, pp 1-4.

*ATIC MCL-100/V

Sci - Chem

Apr 59

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