

Prevention of Glycoside Fission by
Means of Cyclodextrin. Part IV. Inclu-
sion Compounds, by B. Cramer.

FRENCH, per, Justus Liebig's Annalen
der Chemie, Vol 579, 1953, pp. 17-22.

NTC 69-11755-07C

Sci-Chem
July 69

386,636

Metallo-Organic Compounds. XIX. Reaction of the
Aluminum-Hydrogen Combination With Olefins, by
Carl Ziegler, 56 pp.

GERMAN, per, Justus Liebigs Annalen der Chemie,
Vol DLXXXIX, 1954, pp 91-121.

SLA Tr 877/1955

Sci - Phys

50, 126

Jul 57

The Ring Size and Activity of Cyclic Cis Olefins,
9 pp, by K. Ziegler, H. Froitzheim.

GERMAN, per, Justus Liebigs Ann Chem, Vol DLXXXIX,
1954, pp 157-162.

SLA 2899

Sci - Chemistry
Mar 58

59,772

Polymethine Dyes. I. On Cyanmethines, by M. Strell,
W. B. Braunbruck, F. Fuhler, Wolfgang and O. Huber.

GERMAN, per, Justus Liebigs Ann Chem, Vol DLXXXVII,
No 3, 1954, pp 177-194.

SLA 57-2937

Sci

Aug 58

71,161

Polymethine Dyes. II. On Malocyanines, by H.
Strell, (B. W.) Braunbruck, and L. Reithmayr, 24
pp.

GERMAN, part, Justus Liebigs Ann Chem, Vol DLXXVII,
No 3, 1954, pp 195-206.

SLA 57-2939

Sci

Aug 58

71, 162

Alkaloids of Calabash-Curare, VII, by T.
Wickland, H. Mars. ~~END~~

GERMAN, per, Justus Liebig's Annalen der
Chemie, Vol DLXXX, 1954, pp 204-209.

CSIRO

Seri. - Chem
Jun 62

199, 583

63-22845

Ziegler, Karl, Gellert, Hans-Georg, Martin, Heinz,
Nagel, Konrad, and Schneider, Josef.

REACTION OF THE ALUMINUM-HYDROGEN COM-
BINATION WITH OLEFINS. Pt. 19 of Metalloorganic
Compounds. [1963] 56p (figs omitted)
Order from K-H \$56.00 K-H-3215

Trans. of [Justus] Liebigs Annalen der Chemie (West
Germany) 1954, v. 589, no. 2, p. 91-121.

DESCRIPTORS: Metalorganic compounds, *Aluminum
compounds, *Hydrogen, *Ethylenes, Chemical reactions

- I. Ziegler, K.
- II. Gellert, H.-G.
- III. Martin, H.
- IV. Nagel, K.
- V. Schneider, J.
- VI. Title: Metalloorganic...
- VII. K-H-3215
- VIII. Kresge-Hooker Science
Library Associates,
Detroit, Mich.

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

Office of Technical Services

TT-64-14707

Wittig, Georg and Schloeder, Hans.
THE ADDITION OF TRITYL-SODIUM TO BUTADIENE
IN THE PRESENCE OF TRIPHENYL-BORON. [1963]
24p 24refs
Order from SLA \$2.60

TT-64-14707

Trans. of [Justus Liebig's] Annalen der Chemie (West
Germany) 1955, v. 592, p. 38-53.

I. Wittig, G.
II. Schloeder, H.

(Chemistry--Organic, TT, v. 11, no. 12)

Office of Technical Services

The Addition of a Maleic Anhydride to Styrene
Diene Synthesis and Substituting Additions in
the Styrene Series, Pts. 1-5, by
H. Alder, R. Schmitz-Josten.
GERMAN; per, Justus Liebigs Annalen der Chemie,
Vol DXCV, No 1, pp 1-37, 1955.
SLA TT 64-18476

Sci
Apr 67 322,270

Ziegler, Karl and Holzkamp, Erhard.
 ORGANOMETALLIC COMPOUNDS. XXII. MAGNE-
 SIUM-ALUMINUM-ORGANIC COMPLEX COMPOUNDS
 (Metallorganische Verbindungen. XXII. Magnesium-
 Aluminium-Organische Komplexverbindungen). [1964]
 [7]p. 12 refs.
 Order from SLA m\$1.80, ph\$1.80 61-10487

Trans. of [Justus] Liebigs Annalen der Chemie
 (West Germany) 1957, v. 605 [no. 173] p. 93-97.

A successful attempt to make magnesium-aluminum
 organic complex compounds is reported. This work is
 an outgrowth of research on aluminum organic com-
 pounds and on alkali-aluminum-tetraalkyl complexes.
 Preparation and properties of "complete" and
 "partial" complexes, $Mg(AlR_4)_2$ and $RMg(AlR_4)$, are
 described. Results show that the organic magnesium-
 aluminum compounds form less stable complexes than
 the corresponding alkali-aluminum compounds. How-
 ever, interesting changes in solubility relationships
 (Chemistry--Organic, TT, v. 5, no. 8) (over)

61-10487

1. Metalorganic compounds--
 Synthesis
2. Aluminum compounds
 (Organic)--Synthesis
3. Magnesium compounds
 (Organic)--Synthesis
4. Complex compounds--
 Synthesis
1. Ziegler, K.
- II. Holzkamp, E.
- III. Title: Magnesium--...

151435

Office of Technical Services

On the Manner of Reaction of Unsaturated Compounds
Toward Triethylsodium in Presence of Complex-Formation:
III, by Georg Hittig, Diezmar Wittenberg, 23 pp.

GERMAN, per, Justus Liebigs Annal der Chemie,
Vol XCVI, No 13, 1957, pp 1-13.

SLA 59-15942

Sci
Dec 59
Vol 2, No 5

103,783

Asinger, Friedrich, Thiel, Max, and
Kaltwasser, Hans

THE SIMULTANEOUS REACTION OF SULFUR AND
AMMONIA ON CYCLOHEXANONE. 8p 8refs.
Order from SLA \$1.10

TT-64-16887

Trans. of [Justus] Liebigs Annalen [der Chemie] (Weist
Germany) 1957, v. 606 [no. 1/3] p. 67-74.

TT-64-16887

I. Asinger, F.
II. Thiel, M.
III. Kaltwasser, H.

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

Office of Technical Services

Klages, Friedrich and Zange, Egon.
ON CARBONAMIDIUM SALTS. A NEW CLASS OF
CARBOXYLIC ACID DERIVATIVES. Rept. no. 10 on
Onium Salts; part of dissertation by E. Zange,
Munich U., 1957. [1960] [16]p. (diagrams, formulae,
tables omitted) 21 refs.
Order from SLA in \$2.40, ph \$3.30 61-10306

Trans. of [Justus Liebig's] Ann[alen der] Chemie (West
Germany) 1957, v. 607 [no. 1/3] p. 35-45.

The preparation and the characteristics of a few repre-
sentatives of the still unknown class of acyl-ammonium
salts (carbonamidium salts) are described. The com-
pounds $[R' - CO - NR_3]^+ [SbCl_6]^-$ as a result of the
mesomery conditions in the series of carboxylic acid
derivatives display an unusually high acetylating ca-
pacity. (Author)

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

61-10306

1. Onium compounds--
Synthesis
 2. Amines--Chemical
reactions
 3. Antimony compounds
(Organic)--Chemical
reactions
 4. Carboxylic acids--
Chemical reactions
- I. Klages, F.
 - II. Zange, E.
 - III. Title: Onium...
 - IV. Munich U. (West Germany)

146,991

Office of Technical Services

The Hexosamine Content of Cartilage in Dependence
on Age, by Richard Kuhn, Hermann Josef Leppelmann
9 p.

GERMAN, per, Justus Liebigs Ann Chem, 1957,
Vol DCVII, pp 202-206.

SLA 59-16556

Sci
Apr 60
Vol. III, No 3

11, 578

62-16694

I. Vogel, E.

Vogel, Emanuel.
SMALL CARBON RINGS. [1962] [76]p. 216 refs.
Order from SLA \$7.60 62-16694

Trans. of Justus Liebigs Annalen der Chemie
(West Germany) 1958, v. 615, p. 1-14.

DESCRIPTORS: *Carbon compounds, Monocyclic
compounds, Cyclobutanes, Cyclobutenes, Butanes,
Butenes, Propenes, Synthesis.

Office of Technical Services

(Chemistry--Organic, TT, v. 8, no. 8)

Amino Acid Derivatives Containing Silican by
L. Birkofer and A. Ritter.

Eligman
~~FRENCH~~, per, Justus Liebig's Annalen Der Chemie,
Vol DCXII, No 1/2, 1958, pp 22-33

CSIRO Tr 4150

Oct. 62

Investigations on the Carbenes. III.
Reaction of Methylene with Nitro, by
V. Franzen, L. Filkentscher, Op.
GERMAN, per, Justus Liebig Annalen
der Chemie, Vol 617, 1958, pp 1-10.
SLA 77-65-10190

333, 817

Sci
Jul 67

The Determination of Divalent Titanium in the
Presence of Trivalent Titanium, by H. Martin,
J. Stedtfeder, 7 pp.

GERMAN, per, Justus Liebigs Ann der Chemie, Vol DCXVIII,
1958, pp 17-23.

AFS-88L31G

Sci

Jun 60

118,346

Boron Derivatives. I. Preparation of Boron
Trialkyls and Their Reactions With Olefins,
by Roland Koster, 21 pp.

GERMAN, per, Justus Liebigs Annalen der
Chemie, Vol DCXVIII, No 1-3, 1958, pp 31-43.

SLA 60-14310

Sci
Feb 62
Vol III, No 11

184,876

**Preparation and Reactivity of Cyclic Disulphides
with Varying Ring Sizes, by A. Schöberl, H.**

Grafje.

**GERMAN, per, Justus Liebig's Ann'n Chem, Vol
614, pp. 66-83, 1958.**

CSIRO/9174

Sci-Chem

July 69

389,586

Grafje.

Rossmly, Gerd and Stamm, Hellmuth.
ADDITION COMPOUNDS OF ZIRCONIUM TETRA-
CHLORIDE AND DIMETHYL ETHER AND THEIR
PYROLYSIS (Additionsverbindungen aus Zirkontetra-
chlorid und Dimethylether und deren Pyrolyse). [1960]
[12]p. 9 refs.
Order from S.L.A. in \$2.40, ph \$3.30 61-10533

Trans. of [Instit. f. Chemie] [Angewandte] Chemie
(West Germany) 1958, v. 618, p. 50-67.

ZrCl₄ forms a dietherate with CH₃OCH₃; its infrared
spectrum is discussed. During its pyrolysis, two
processes are superimposed: 1) dissociation with for-
mation of the monoetherate; the corresponding heat of
dissociation is determined from the vapor pressure
curve as 10.5 kcal/mole; 2) decomposition to the
monomer of condensed chlorine-containing methyl
zirconate, which occurs with formation of methyl
chloride. The mechanism of these reactions can be
studied via the infrared spectrum. (Author)
(Chemistry - Organic, FI, v. 5, no. 8)

61-10533

1. Methyl ethers -- Chemical reactions
2. Zirconium chlorides -- Chemical reactions
3. Zirconium compounds (Organic) -- Decomposition
4. Title: Addition compounds
1. Rossmly, G.
- II. Stamm, H.

61-10533

Office of Technical Services

A Simple Synthesis of Substituted Azulenes, by
K. Hafner and H. Kaiser, 19 p.
GERMAN, per, Justus Liebigs Annalen der Chemie, Vol
618, 1958, pp 140-152.
IICH-8695

Sci-Chem
Jun 66

~~SECRET~~
303,700

Photosensitized Synthesis of Tertiary Allyl Hydroperoxides From Symmetrical Tetrasubstituted Ethylenes, by G. O. Schenck, K. H. Schulte-Elte, 12 pp.

GERMAN, per, Justus Liebigs Chem Ann, Vol DCXVIII, 1958, pp 185-193.

CIA/FDD XX-625

NOT RELEASABLE TO FOREIGN NATIONALS

Sci - Chem
Aug 59

USIA INTERNAL USE ONLY

93, 217

Hoch and Haaf.

SYNTHESIS OF BRANCHED CARBOXYLIC ACIDS
BY THE FORMIC ACID METHOD. [1961] 13p.
(refs. formulae omitted).

Order from SLA \$1.60

62-10456

Trans. of [Justus Liebig's Annalen der Chemie]
(West Germany) 1958, v. 618, no. 1/3, p. 251-256.

Portions of this report will not reproduce well.

DESCRIPTORS: *Carboxylic acids, Acids, Synthesis,
Ethylenes, Carbon compounds, Monoxides, Water,
*Formic acids, Alcohols, Chlorides, Alkyl radicals,
Esters, Cyclopentenes, Cyclopentanols, Pentenes,
Pentanols, Cyclohexenes, Cyclohexanols, Chemical
reactions, Monocyclic compounds.

(Chemistry--Organic, TT, v. 7, no. 8)

62-10456

I. Hoch
II. Haaf

Office of Technical Services

Organic Metallic Compounds: Aluminum Trialkyls and
Dialkyl Aluminum Hydrides as Reducing Agents, by
Karl Ziegler, Kurt Schneider, Josef Schneider,
15 p.

GERMAN, per, Justus Liebig^S Annalen der Chemie ,
1959, Vol XCIXIII, No 1/3, pp 9-16.

SLA 60-10132

Sci
Apr 50
Vol LXX, No 3

112,097

The Steric Course of the Addition of Butadiene
to the Double Bond of the Bicyclo-1,2,2/-
Heptene System, by Kurt Alder, Joachim Monch,
et al., 14 pp.

GERMAN, per, Justus Liebigs Annalen der Chemie,
Vol DCCXVIII, No 1-3, 1959, pp 47-58.

(ISA - 14521

Sci
Feb 62
Vol III, No 11

184,886

Aminolysis of 1-Acyl-3, 5-Dimethylpyrazoles,
by W. Ried, B. Schleimer.

GERMAN, per, Justus Liebigs Annalen der Chemie,
Vol DCXXVI, No 1-3, 1959, pp 98-105.

CSIRO 5050

Sci
Dec 62

Organophosphorus Compounds. Part 18.
Phosphinimines from Phosphine Dihalides
and Primary Amines, by L. Hoerner,
H. Oediger
FRENCH, per, Justus Liebig's Annalen
der Chemie, Vol 627, 1969, pp. 142-62
NTE 69-10679-07B

Sci-Chem
July 69

386,692

61-20449

Ziegler, Karl, Gellert, Hans-Georg and others.
ALUMINUM TRIALKYLS AND DIALKYL ALUMINUM
HYDRIDES FROM OLEFINS, HYDROGEN, AND
ALUMINUM. Pt. 26 of Metalloorganic Compounds.
[1961] 26p. 35 refs.

Order from SLA \$2.60

61-20449

SLA 77-60-309 (70 26.11) R-H-100240-H

Trans. of [Justus Liebig's] Annalen der Chemie (West
Germany) 1960, v. 629 [no. 1/3] p. 1-13.

DESCRIPTORS: Metalorganic compounds, *Aluminum
compounds, *Hydrides, *Alkyl radicals, Synthesis,
*Ethylenes, *Hydrogen, *Aluminum, Chemical
reactions.

I. Ziegler, K.
II. Gellert, H.-G.
III. Title: Metalloorganic...

(Chemistry--Organic, TT, v. 7, no. 1)

Office of Technical Services

63-22847

Ziegler, Karl, Martin, Heinz, and Krupp, Felix.
ALUMINUM TRIALKYLS AND DIALKYL ALUMINUM
HYDRIDES FROM ISOBUTYL ALUMINUM COM-
POUNDS. Pt. 27 of Metalloorganic Compounds. [1961]

8p

Order from: K-H \$8.00

K-H-10024-12

Trans. of Justus Liebigs Annalen [Ger.] Chemie (Weir
Germany) 1960, v. 629 [no. 1/3] p. 14-19.

Another trans. is available from SLA \$1.10 as
61-20450 [1961] 8p

DESCRIPTORS: Metalorganic compounds, *Aluminum
compounds, *Hydrides, *Alkyl radicals, *Butyl radi-
cals, Synthesis (Chemistry), Chemical reactions.

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

I. Title: Alkylaluminum
hydride

I. Ziegler, K.

II. Martin, H.

III. Krupp, F.

IV. Title: Metalloorganic...

V. K-H-10024-12

VI. Kresge-Hooker Science
Library Associates,
Detroit, Mich.

Office of Technical Services

Ziegler, K[arl] and Gellert, H[ans]-G[eorge].
 DETERMINATION OF THE "ACTIVITY" OF
 ORGANOALUMINUM COMPOUNDS. Pt. 28 of Metal-
 loorganic Compounds. [1961] 5p. 5 refs.
 Order from SLA \$1.10

61-20451

Trans. of Justus Liebig's Annalen der Chemie (West
 Germany) 1960, v. 629, no. 1/3, p. 20-22.

DESCRIPTORS: Metalorganic compounds, *Aluminum
 compounds, *Alkyl radicals, Determination.

By "active" aluminorganic compounds we understand
 Al trialkyls and Al dialkylhydrides. It is possible to
 determine them analytically, beside the inactive types
 of the R_2AlOR kind (which are formed, e.g., through
 autoxidation); by a simple titration method as only the
 active compounds are capable of fixing 1 mole of
 ammonia. (Author) (See also 61-20450)
 (Chemistry--Organic, TT, v. 7, no. 1)

61-20451

- I. Ziegler, K.
- II. Gellert, H.-G.
- III. Title: Metalloorganic...

Office of Technical Services

Neumann, W. P.
THE QUANTITATIVE DETERMINATION OF DI-
ALKYL AL HYDRIDES. Pt. 29 of Metalloorganic
Compounds. [1961] 16p. 14 refs.

Order from SLA \$1.60

61-20452

Trans. of [Justus Liebig's] Annalen der Chemie (West
Germany) [1960] v. 629, no. 1/3, p. 23-33.

DESCRIPTORS: Metalorganic compounds, *Aluminum
compounds, *Hydrides, *Alkyl radicals,
Quantitative analysis.

Two methods have been developed for the determina-
tion of Al-H bonds in aluminum organic compounds: a
gas-volumetric method for routine analysis in the
laboratory or in the plant and a spectrophotometric
method of greater precision and sensitivity. (Author)
(See also 61-20451)
(Chemistry--Organic, TT, v. 7, no. 1)

61-20452

I. Neumann, W. P.
II. Title: Metalloorganic...

Office of Technical Services

Ziegler, Karl, Koster, Roland and others.
NEW COMPLEX COMPOUNDS OF ALUMINUM
ALKYLS. Pt. 30 of Metalloorganic Compounds. [1961]
29p. 13 refs.
Order from SLA \$2.60
Trans. of [Justus Liebig's] Annalen der Chemie (West
Germany) 1960, v. 629, no. 1/3, p. 33-49.

61-20453

- I. Ziegler, K.
- II. Koster, R.
- III. Title: Metalloorganic...

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

See also 61-20452

ATS-019676 (15 pp)

(Chemistry--Organic, TT, v. 7, no. 1)

61-20453

Office of Technical Services

Koster, Roland and Kroll, Wolf-Rainer.
POTASSIUM CHLORIDE COMPLEXES OF DIALKYL
ALUMINUM CHLORIDE AND THEIR CLEAVAGE.
Pt. 31 of Metalloorganic Compounds. [1961] 4p.
4 refs.
Order from SLA \$1.10

61-20454

Trans. of Liebig's Annalen der Chemie
(West Germany) 1960, v. 629 [no. 1/3] p. 50-52.

DESCRIPTORS: Metalorganic compounds, Complex
compounds, *Aluminum compounds, *Potassium
compounds, *Chlorides, *Alkyl radicals, Chemical
reactions.

See also 61-20453

(Chemistry--Organic, TT, v. 7, no. 1)

61-20454

I. Koster, R.
II. Kroll, W.-R.
III. Title: Metalloorganic...

Office of Technical Services

61-20455

Ziegler, Karl, Kroll, Wolf-Rainer and others.
DISSOCIATION AND EXCHANGE REACTIONS OF
THE ALUMINUM TRIALKYLS. Pt. 32 of Metal-
loorganic Compounds. [1961] 57p. 31 refs.

Order from SLA \$5.60

61-20455

Trans. of [Justus Liebig's] Ann[alen] der Chemie
(West Germany) 1960, v. 629 (no. 1/3) p. 53-89.

DESCRIPTORS: Metalorganic compounds, *Aluminum
compounds, *Alkyl radicals, Exchange reactions,
Dissociation.

See also 61-20454

- I. Ziegler, K.
- II. Kroll, W.-R.
- III. Title: Metalloorganic...

(Chemistry--Organic, TT, v. 7, no. 1)

Office of Technical Services

61-20456

Koster, Roland and Bruno, Gunter.
EXCHANGE OF HYDROCARBON RADICALS BE-
TWEEN ORGANIC ALUMINUM AND BORON COM-
POUNDS. Pt. 33 of Metalloorganic Compounds;
Rept. 3 of Boron Compounds. [1961] 23p. 35 refs.
Order from SLA \$2.60 61-20456

Trans. of ~~Justus Liebig's Annalen der Chemie~~
(West Germany) 1960, v. 629 [no. 1/3] p. 89-103.

DESCRIPTORS: Metalorganic compounds, *Aluminum
compounds, *Boron compounds, *Alkyl radicals,
*Hydrocarbons, Exchange reactions.

See also 61-20455

(Chemistry--Organic, TT, v. 7, no. 1)

- I. Koster, R.
- II. Bruno, G.
- III. Title: Metalloorganic...
- IV. Title: Boron...

Office of Technical Services

61-20457

Hoffmann, Ernst G.
ADIABATIC CRYOMETRY AND ITS APPLICATION
TO ORGANOALUMINUM COMPOUNDS. [1961] 29p.
28 refs.

Order from SLA \$2.60

61-20457

1. Title: Cryometer
2. Title: Cryoscopy
1. Hoffmann, E. G.

Trans. of [Justus] Liebigs Ann[alen der] Chemie
(West Germany) 1960, v. 629 [no. 1/3] p. 104-121.

DESCRIPTORS: *Cryogenics, Thermometers,
Measurement, *Low temperature research, Freezing,
Liquids, Determination, Molecular weight, Aluminium
compounds, Metalorganic compounds, Organic
solvents, Chemical equilibrium, Valence, Exchange
reactions.

(Chemistry--Organic, TT, v. 7, no. 4)

Office of Technical Services

Ziegler, Karl, Gellert, Hans-Georg and others.
REACTIONS OF THE Al-C BOND WITH OLEFINS.
Pt. 34 of Metalloorganic Compounds. [1961] 74p.
50 refs.

Order from SLA \$7.60

61-20458

Trans. of [Justus Liebig's] Annalen der Chemie (West
Germany) 1960, v. 629, no. 1-3, p. 121-166.

DESCRIPTORS: Metalorganic compounds, *Aluminum
compounds, *Alkyl radicals, *Ethylenes, Chemical
reactions, Displacement reactions.

See also 61-20456

(Chemistry--Organic, TT, v. 7, no. 1)

61-20458

- I. Ziegler, K.
- II. Gellert, H.-G.
- III. Title: Metalloorganic...

Office of Technical Services

Ziegler, Karl and Kroll, Wolf-Rainer.
DISPLACEMENT AND GROWTH REACTIONS IN
DIALKYL AL COMPOUNDS OF THE R_2AlX TYPE.
Pt. 35 of Metalloorganic Compounds. [1961] 8p.

4 refs.

Order from SLA \$1.10

61-20459

Trans. of [Justus Liebig's] Annalen der Chemie
(West Germany) [1960] 629, no. 1/3, p. 167-171.

DESCRIPTORS: Metalorganic compounds, *Aluminum
compounds, *Alkyl radicals, Displacement reactions.

See also 61-20458

(Chemistry--Organic, TT, v. 7, no. 1)

61-20459

- I. Ziegler, K.
- II. Kroll, W.-R.
- III. Title: Metalloorganic...

Office of Technical Services

61-20460

I. Ziegler, K.
II. Gellert, H.-G.
III. Title: Metalloorganic...

Ziegler, Karl, Gellert, Hans-Georg and others.
SYNTHESIS OF STRAIGHT-CHAIN α -OLEFINS
FROM ETHYLENE. Pt. 36 of Metalloorganic Com-
pounds. [1961] 42p. 24 refs.
Order from SLA \$4.60

Trans. of [Justus Liebig's] Annalen der Chemie (West
Germany) 1960, v. 629, no. 1/3, p. 172-198.

DESCRIPTORS: Metalorganic compounds, *Butenes,
Synthesis, *Ethylenes, *Aluminum compounds, *Alkyl
radicals, Chemical reactions, Displacement reactions,
Catalysts, Catalysis.

See also 60-20459

(Chemistry--Organic, TT, v. 7, no. 1)

Office of Technical Services

Weslau, Hermann.
THE PROBLEM OF CHAIN-LENGTH DISTRIBUTION
IN THE STEP-WISE METALLOORGANIC SYNTHESIS. [1961] 14p. 10 refs.
Order from SLA \$1.60

61-20504

61-20504

I. Weslau, H.

Trans. of [Justus Liebig's] Annalen der Chemie (West
Germany) 1960, v. 629, no. 1/3, p. 198-206.

DESCRIPTORS: *Metalorganic compounds, *Ethylenes,
*Aluminum compounds, *Alkyl radicals, Synthesis,
Chain reactions, Displacement reactions,
Statistical distributions.

It is shown how one must calculate the distribution of
chain lengths for the "growth reaction" as per
K. Ziegler and coworkers; and, namely (1) in the limiting
case of the pure growth (or in the case of the ideal
two-step α -olefin synthesis with growth and displac:-
(Chemistry--Organic, TT, v. 7, no. 2) (over)

Office of Technical Services

61-20461

I. Pfohl, W.
II. Title: Metalloorganic...

Pfohl, W[erner].
TRINEOPENTYL ALUMINUM. Pt. 37 of Metallo-
organic Compounds. [1961] 4p. 5 refs.
Order from SLA \$1.10 61-20461.

Trans. of [Justus Liebig's] Annalen der Chemie
(West Germany) 1960, v. 629, no. 1/3, p. 207-209.

DESCRIPTORS: Metalorganic compounds, *Aluminum
compounds, *Methyl radicals, *Pentyl radicals,
*Alkyl radicals, *Bixenes, Chemical reactions,
Synthesis.

See also 61-20460

(Chemistry--Organic, TT, v. 7, no. 1)

Office of Technical Services

Ziegler, Karl, Nagel, Konrad and Pfohl, Werner.
PYROLYSIS OF AL TRIALKYLS. Pt. 38 of Metal-
loorganic Compounds. [1961] 19p. 5 refs.

Order from SLA \$1.60

61-20462

Trans. of [Justus Liebig's] Annalen der Chemie (West
Germany) 1960, v. 629, no. 1/3, p. 210-221.

DESCRIPTORS: Metalorganic compounds, *Aluminum
compounds, *Alkyl radicals, Pyrolysis.

See also 60-20461

(Chemistry--Organic, TT, v. 7, no. 1)

61-20462

- I. Ziegler, K.
- II. Nagel, K.
- III. Pfohl, W.
- IV. Title: Metalloorganic...

Office of Technical Services

Wilke, Gunther and Muller, Herbert.
REACTIONS OF ORGANOALUMINUM COMPOUNDS
WITH ACETYLENE. Pt. 39 of Metalloorganic Com-
pounds. [1961] 25p. 18 refs.
Order from SLA \$2.60

61-20468

Trans. of [Justus] Liebigs Ann[alen der Chemie]
(West Germany) 1960, v. 629 [no. 1/3] p. 222-240.

DESCRIPTORS: Metalorganic compounds, *Aluminum
compounds, *Alkyl radicals, *Acetylenes, Chemical
reactions.

See also 61-20462

(Chemistry--Organic, TT, v. 7, no. 1)

61-20468

- I. Wilke, G.
- II. Muller, H.
- III. Title: Metalloorganic ..

Office of Technical Services

61-20480

Ziegler, Karl, Krupp, Felix, and Zosel, Kurt.
SYNTHESIS OF ALCOHOLS FROM ORGANO-
ALUMINUM COMPOUNDS. Pt. 40 of Metalloorganic
Compounds. [1961] 15p. 24 refs.

Order from SLA \$11.60

61-20480

Trans. of [Justus Liebig's] Annalen der Chemie (West
Germany) 1960, v. 529, no. 1-3, p. 241-250.

DESCRIPTORS: Metalorganic compounds, *Aluminum
compounds, *Alkyl radicals, Oxidation, *Alcohols,
Synthesis.

See also 61-20468

(Chemistry--Organic, TT, v. 7, no. 1)

- I. Ziegler, K.
- II. Krupp, F.
- III. Zosel, K.
- IV. Title: Metalloorganic...

Office of Technical Services

61-20463

Ziegler, Karl, Krupp, Felix and others.
REACTIONS OF THE AL TRIALKYLS WITH CAR-
BON DIOXIDE AND SULFUR DIOXIDE. Pt. 41 of
Metalloorganic Compounds. [1961] 10p. 8 refs.
Order from SLA \$1.10

61-20463

Trans. of [K-HA/D.O.] Annalen der Chemie (West
Germany) [1960] v. 629, no. 1/3, p. 251-256.

DESCRIPTORS: *Aluminum compounds, *Alkyl radi-
cals, *Carbon dioxide, *Sulfur compounds,
*Dioxides, Chemical reactions, *Carboxylic acids,
*Sulfinic acids, Acids, Production, Metalorganic
compounds.

See also 61-20480

(Chemistry--Organic, TT, v. 7, no. 1)

- I. Ziegler, K.
- II. Krupp, F.
- III. Title: Metalloorganic...

Office of Technical Services

Kurtz, P.
1-CYANO-2-ALKENES. IV. THE FORMATION OF
NITRILES. [1960] 35p.
Order from ATS \$42.85

ATS-29M47G

Trans. of [Justus Liebig] Annalen der Chemie]
(West Germany) 1960, v. 631, no. 1/3, p. 21-58.

151565

(Chemistry--Organic, TT, v. 5, no. 8)

61-12783

- I. Cyanides--Synthesis
- I. Kurtz, P.
- II. ATS-29M47G
- III. Associated Technical Services, Inc., East Orange, N. J.
- IV. Title: Formation ...

Office of Technical Services

61-12969

Meerwein, H., Bodenbenner, K. and others.
TERTIARY CARBOXYONIUM SALTS. [1961] 18p.
Order from ATS \$21.85 ATS-10849G

Trans. of [Justus Liebig's] Annalen der Chemie
(West Germany) 1960, v. 632 (no. 1/3) p. 38-52.

1. Oxonium compounds--
Synthesis
2. Salts--Synthesis
- I. Meerwein, H.
- II. Bodenbenner, K.
- III. ATS-10849G
- IV. Associated Technical
Services, Inc., East
Orange, N. J.

10849G

Office of Technical Services

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

Concerning a Sodium-Uranium (V) Fluoride,
Na₃UF₈, by Walter Ruedorff, Hans Leutner,
15 pp.

GERMAN, part, Justus Liebigs Annalen der
Chemie, Vol. DCXXXII, 1960, pp 1-7.
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ABC Tr-5205

Sci - Chem
Sep 62

212, 699

61-22634

Meerwein, H., Hederich, V. and others.
INTERMOLECULAR ANION TRANSFERS IN ORGANIC
REACTIONS. [1961] 18p.
Order from ATS \$27.80

ATS-34N51G

Trans. of Justus Liebigs Ann[alen der] Chem[ie]
(West Germany) 1960, v. 635, 20 Sep, p. 1-21.

DESCRIPTORS: *Ions, *Chemical reactions, Organic
compounds.

- I. Title: Organic reactions,
- I. Meerwein, H.
- II. Hederich, V.
- III. ATS-34N51G
- IV. Associated Technical
Services, Inc., East
Orange, N. J.

185172

Office of Technical Services

(Chemistry--Physical, TT, v. 6, no. 8)

61-22906

Kropf, H.
PHTHALOCYANINE CATALYSIS. I. KINETICS AND
MECHANISM OF THE AUTOXIDATION OF CUMENE
IN THE PRESENCE OF PHTHALOCYANINES. [1961]
19p.
Order from ATS \$23.45 ATS-80N50C

Trans. of Justus Liebig's Annalen der Chem[ie]
(West Germany) 1960, v. 637, p. 73-93.

DESCRIPTORS: *Phthalocyanines, *Catalysis, Oxida-
tion, *Cumenes, Reaction kinetics

I. Kropf, H.
II. Title: Kinetics ...
III. ATS-80N50C
IV. Associated Technical
Services, Inc., East
Orange, N. J.

17601

Office of Technical Services

(Chemistry--Physical, TT, v. 6, no. 4)

61-22907

Kropf, H.
PHthalOCYANINE CATALYSIS. II. CATALYSIS OF
THE AUTOXIDATION OF BENZENE HYDROCARBONS
BY COPPER PHthalOCYANINE. [1961] 16p.
Order from ATS \$17.45 ATS-81N50G

Trans. of Justus Liebig's Annalen der Chem[ie]
(West Germany) 1960, v. 637, p. 93-110.

DESCRIPTORS: *Phthalocyanines, *Catalysis, Oxida-
tion, *Benzenes, Hydrocarbons, *Copper compounds.

See also ATS-80N50G

I. Kropf, H.
II. Title: Catalysis ...
III. ATS-81N50G
IV. Associated Technical
Services, Inc., East
Orange, N. J.

177014

Office of Technical Services

(Chemistry--Physical, TT, v. 6, no. 4)

61-22908

Kropf, H.
PHthalOCYANINE CATALYSIS. III. DECOMPOSITION
OF CUMENE HYDROPEROXIDE IN THE PRESENCE
OF THE PHthalOCYANINES OF COBALT AND
COPPER. [1961] 7p.
Order from ATS \$7.10

ATS-82NSOG

Trans. of Justus-Liebig-Anstalten der Chem[ie] (West
Germany) 1960, v. 637, p. 111-118.

DESCRIPTORS: *Phthalocyanines, *Catalysis, Decom-
position, *Cumenes, Hydroperoxides, Cobalt com-
pounds, Copper compounds.

See also ATS-81NSOG

(Chemistry--Physical, TT, v. 6, no. 4)

- I. Kropf, H.
- II. Title: Decomposition ...
- III. ATS-82NSOG
- IV. Associated Technical
Services, Inc., East
Orange, N. J.

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Office of Technical Services

Heterocyclic Compounds in Metabolism. Part 18, Biosynthesis of Riboflavine. Conversion of Guanine-(5-¹⁴C) by Candida Species under the Influence of Trace Elements Zinc and Iron, by F. Korte.

GERMAN, per, Justus Liebig's Annalen der Chemie, vol. 648, 1961, pp. 131-139.

NtC 70-16967-06A

Ziegler, Karl and Steudel, Otto-Walter.
ELECTROLYSIS OF TETRAALKYLBORANATES IN
AQUEOUS SOLUTION. Pt. 42 of Metalorganic
Compounds. [1964] 11p
Order from K-H \$6.60

K-H-11927

Trans. of Justus Liebig's Annalen der Chemie (West
Germany) [1962] v. 652, p. 1-7.

See also TT-61-20463

71 65-1927

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

TT-64-12940

- I. Ziegler, K.
- II. Steudel, O.-W.
- III. Title: Metalorganic...
- IV. K-H-11927
- V. Kresge-Hooker Science
Library Associates,
Detroit, Mich.

Office of Technical Services

1,3,-Dipolar Additions, 2. Synthesis of 1, 2, 4-Triazoles from Nitrilimines and Nitriles, by R. Brusgen.
GERMAN, per, Justus Liebigs Annln Chem, Vol 653, 1962, pp 105-113.
GE 357/T. 703

Sci/Chem
July 69

385-991

Hoberg, Heinz.
TO THE KNOWLEDGE OF SO-CALLED CARBENE
REACTIONS, I. [1963] 16p. 32 refs.
Order from SLA \$1.60 63-16601

Trans. of [Justus] Liebig's Annalen der Chemie (West
Germany) 1962, v. 636, p. 1-9.

DESCRIPTORS: Chemical reactions, *Carbenes,
*Alkyl radicals, *Aluminum compounds, *Halides,
*Methyl radicals, *Azo radicals, Ethers, *Metal-
organic compounds.

Dialkyl aluminum halides react with diazomethane with
the formation of halogen methyl aluminum dialkyls.
Their ethers are formed in ether. Methyl ketone-
dialkyl aluminum can be separated as a solid; it
decomposes above -100°. Compounds of this type react
(in the absence of ether) already with oil-fins and
alkynes respectively below their decomposition temper-
(Chemistry--Organic, TT, v. 10, no. 7) (over)

63-16601

I. Hoberg, H.

Office of Technical Service

Hoberg, Heinz.
TO THE KNOWLEDGE OF SO-CALLED CARBENE
REACTIONS, II. [1963] 5p. 2 refs.
Order from SLA \$11.10

63-16600

Trans. of [Justus] Liebigs Annalen der Chemie (West
Germany) 1962, v. 656, p. 15-17.

DESCRIPTORS: Chemical reactions, *Carbenes,
*Alkyl radicals, *Zinc compounds, *Halides, *Methyl
radicals, *Azo radicals, Ethers, *Metalorganic
compounds.

It is shown that the reaction products of diazomethane
and zinc halides behave like the analogous aluminum
compounds and do not represent a new type of compound.
(Author) (See also 63-16601)

(Chemistry--Organic, TT, v. 10, no. 7)

63-16600

I. Hoberg, H.

Office of Technical Services

Hydroxymethylphosphines, Hydroxymethyl-
phosphonium Salts and Chloromethylphos-
phonium Salts, by H. Hellmann, J. Bader.
GERMAN, per, Justus Liebig's Annalen der
Chemie, Vol 659, 1962, pp 49-63.
NTC 69-11353-07C

Sci-Chem
July 69

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Horner, Leopold, Reuter, Heinrich, and
Herrmann, Edith.

INFLUENCE OF THE STRUCTURE OF ORGANIC SUB-
STANCES ON THE POISONING OF RANEY NICKEL
HYDROGENATION CATALYSTS. [1963] [10]p. (figs.
tables refs. omitted).

Available from SLA on loan

63-16529

Trans. of Justus Liebig's Annalen der Chemie (West
Germany) 1962, v. 660, p. 1-23.

DESCRIPTORS: *Catalysts, Hydrogenation, *Nickel,
*Organic compounds, Cyclohexene, Chemisorption,
Crystal structure, Nitriles, Sensitivity.

(Chemistry--Organic, TT, v. 10, no. 8)

63-16529

1. Title: Raney nickel
- I. Horner, L.
- II. Reuter, H.
- III. Herrmann, E.

Office of Technical Services

Pyridinium N-Phenolbetaines and Their Use
for the Characterization of the Polarity of
Solvents, by K. Dimroth.

EUROPEAN, per, Justus Liebig's Annalen der
Chemie, Vol 661, 1963, pp 1-37.

NTC-71-11512-07C

Feb 72

JPRS CSO: 16556
16556 5 Oct 67

Development of the Student Movement in Spain,
by Andres Carrizo

Spanish, por. Juventud y Libertad, New York,
vol 11, No. 4 : PP 28-32

Spanish
pa
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plus one copy.
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Fault Finding on PET Cables with Cable Fault
Detectors, by E. Grevelund, A. Plaschke.
GERMAN, rpt, Jydsk Telefon, Tjenstlige
Efterretninger, April 1961, pp. 17-22
NLL Ref: 9022.81 (2510)

Sci-Elect
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Basic Problems of the Modern Theory of Plane
Deformation, by A.I. Tselikov.
GERMAN, per, KBS Mitteilungen, Vol 4, Special
Issue, 1960, pp 15-36.

*BISI 7390

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Sci/Mat
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Energy Distribution in Three Rotor Blades of
Different Width, by U. Domm
EUROPEAN, per, KSB Technische Berichte, No 6,
1963, pp 12-21
NTC 71-15554-20K

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1-312
1 July 65

The Surveying Services in the Netherlands by J.
chokkenkamp. pp (pp 6-7 thru 6-9)

Kaartbulletin 6, Rijswijk, N., op 1961

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✓ JFR

Manual of Procedure for Care of the Dead.

FINNISH, Kaatuneiden Huollon Ohjesaanto,
Incl 2 to R-106-61. (TABLE OF CONTENTS ONLY)

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ID 2170934

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19 Dec 61

Kabelkrane. 1956. by I. Y. Barat, V. I. Plavinskiy,

Translated from the Russian edition.

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Afghan Postal Rates, 16 pp.

PERSIAN, document, Kabul, pp 1-14.

JPRS 8367

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AEC (UCRL-Trans-10622) ⁵EQUATION OF STATE FOR
LIQUID AMMONIA. ⁸Planck, R. ¹⁰Translated for Univ. of
California Lawrence Livermore Lab., Livermore, from ¹⁵Kaelte-
technik; 12: No. 10, 282-3(1960). ¹⁷20⁴p. ²⁴Dep. NTIS.

²⁶Physics; translations ²⁷20

²⁸MN-34 ²⁹P NSA

The Surface Tension of Refrigerants, Refrigeration
Oils and Their Mixtures, by H. Steinle.

GERMAN, per, Kältetechnik, Vol 12, No 11, 1960,
pp 334-339.

NTC 71-13873-11G

Feb 72

Designation of Refrigerants, by H. Steinle.
GERMAN, per, Kaeltetechnik, Vol. 12, No 12,
1960, p 392.
NTC 71-13872-11E

Feb 72

Azeotropic and Other Frigen Mixtures as
Refrigerants, by A. Fuderer
GERMAN, per, Kaeltetechnik, Vol 15, 1963,
pp 235-239
NTC 71-15102-11G

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Problems of Large-Scale "Frigen" (R)
Refrigeration Plant, by H. L. von Cube
GERMAN, per, Kaeltetechnik, Vol 16, No 3,
1964, pp 76-83
NTC 71-15103-13A

mar 72

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East German Militia Training, by Roland Fieback, 6 pp.
OFFICIAL USE ONLY

GERMAN, per, Der Kaempfer, No 5, 1961, p 4.

JPRS 4726

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EEur - Germany

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Jul 61

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Research on Supersonic Air Intakes,
by P. Carriere, J. Leynaert.
FRENCH, per, Kalrbuch 1959 dec WGL, 1959,
pp 80-89.
*Dept Navy Tr 4093/APL T-1231

Sci + Aero
Apr 65

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Wever, Franz and Lange, Heinrich.
TRANSFORMATION KINETICS OF AUSTENITE.
I. MAGNETIC INVESTIGATIONS OF AUSTENITE
DISINTEGRATION. [1961] [46]p. (28 figs. omitted)
15 refs.

Order from SLA \$4.60

61-14956

Trans. of Kaiser-Wilhelm-Institut f[ur] Eisenforsch-
ung, Dusseldorf. Mitteilungen (Germany) 1932,
v. 14, p. 71-83.

DESCRIPTORS: *Austenite, *Transformations, Phase
transitions, Steel, Magnetism.

61-14956

I. Wever, F.
II. Lange, H.
III. Title: Magnetic...

184023

Office of Technical Services

(Unannounced)

Bardenheuer, P. and Geller, W.
THE BASIC PRINCIPLES OF THE DESULFURIZA-
TION OF PIG IRON AND STEEL. [Nov 47] 26p.
(4 figs. omitted) 42 refs.
Order from SLA m/\$2.70, ph/\$4.80

60-18855

Trans. of K $\ddot{u}$ hner-Wilhelm-Institut f $\ddot{u}$ r Eisenforschung,
Dusseldorf. Mitteilungen (Germany) 1934, v. 16,
no. 7, p. 77-91.

60-18855

1. Sulfur--Separation
2. Iron--Impurities
3. Steel--Impurities
- I. Bardenheuer, P.
- II. Geller, W.

Office of Technical Services

(Unannounced)

60-18856

Kirber, Friedrich and Eisen, Wilhelm.
THE ACTION OF CARBON AS A REDUCING AGENT
IN THE REACTIONS OF THE STEELMAKING PROC-
ESSES WITH ACID SLAGS. [Aug 47] 45p. 10 refs.
Order from SLA m53.30, ph\$7.80 60-18856

Trans. of Kaiser-Wilhelm-Institut für Eisenforschung,
Düsseldorf: Mitteilungen (Germany) 1935, v. 17,
no. 4, p. 39-61.

1. Steel--Production
 2. Carbon--Metallurgical effects
 3. Slags--Applications
- I. Kirber, F
 - II. Eisen, W

Office of Technical Services

(Unannounced)

61-18489

Dickens, Peter and Thanheiser, Gustav.
A SIMPLIFIED METHOD FOR THE CO-DETERMINA-
TION OF MANGANESE, CHROMIUM AND
VANADIUM. Rept. no. 125 of the Chemical Committee
of the Verein Deutscher Eisenhüttenleute. [1961]
14p. 6 refs.
Order from SLA \$1.60

61-18489

Trans. of Kaiser-Wilhelm-Institut für Eisenforschung
[Düsseldorf]. Mitteilungen (Germany) 1938, v. 20,
no. 3, p. 35-41; Archiv für das Eisenhüttenwesen
(Germany) 1938, v. 11, May, p. 583-588.

DESCRIPTORS: *Manganese, *Chromium, *Vanadium.
Determination, Oxidation, Electrodes, Metallurgy,
*Steel, Tungsten.

(Unannounced)

- I. Dickens, P.
- II. Thanheiser, G.
- III. Title: Verein...

184063

Office of Technical Services

Bardenheuer, Peter and Bleckmann, Richard.
THE PRIMARY CRYSTALLIZATION OF STEEL
UNDERCOOLING ABILITY AND NUCLEUS FORMATION
IN THE LIQUID CONDITION. [1959] [32]p.
19 refs.

Order from SLA \$3.60

62-14406

Trans. of [Kaiser-Wilhelm-Institut für Eisenforschung,
Dusseldorf: Mitteilungen (Germany) 1939] v. 21,
no. 13 [p. 201-212].

DESCRIPTORS: *Steel, *Crystallization, Cooling,
Melting, Nucleation, *Phase studies, Nuclei, Thermodynamics,
Liquid metals.

(Metallurgy--Ferrous Metals, IT, v. 10, no. 2)

62-14406

1. Title: Undercooling
- I. Bardenheuer, P.
- II. Bleckmann, R.

Office of Technical Services

61-18557

Lueg, Werner and Schultze, Fritz.
INFLUENCE OF FORWARD TENSION AND BACK-
WARD TENSION IN THE COLD-ROLLING OF STRIP
STEEL IN A TWELVE-HIGH COLD-ROLLING MILL.
[1961] [21]p. (8 tables 2 figs. omitted) 7 refs.
Order from SLA \$2.60 61-18557

Trans. of Kaiser-Wilhelm-Institut für Eisenforschung,
Dusseldorf, Mitteilungen (Germany) [1940] [v. 22]
no. 7, p. 93-103.

DESCRIPTORS: *Steel, Processing, Tensile properties,
*Rolling mills, Tests.

(Metallurgy--Ferrous Metals, TT, v. 7, no. 3)

I. Lueg, W.
II. Schultze, F.

Office of Technical Services

61-18858

Pomp, Anton and Niebch, Georg.

THE LOSS OF STRENGTH WITH TIME DUE TO THE
ANNEALING OF COLD-ROLLED STEEL STRIP FOR
DEEP-DRAWING OPERATIONS. [1961] [15]p. (49 figs.
omitted) 13 refs.

Order from SLA \$1.60

61-18858

Trans. of Kaiser-Wilhelm-Institut für Eisenforschung
[Dusseldorf]. Mitteilungen (Germany) 1940, v. 22,
no. 8, p. 109-119.

DESCRIPTORS: Drawing (Machine processing). Anneal-
ing. Rolling mills. *Steel. Mechanical properties.
Manufacturing methods.

- I. Pomp, A.
- II. Niebch, G.

Office of Technical Services

(Metallurgy--Ferrous Metals, TT, v. 7, no. 3)

61-18508

Eichinger, Anton and Lueg, Werner.
THE HEATING-UP OF WIRE AND DIE IN COLD-
DRAWING. [1961] [20]p. 41 refs.
Order from SLA \$1.60 61-18508

Trans. of Kaiser-Wilhelm-Institut für Eisenforschung
[Dusseldorf]. Mitteilungen (Germany) 1941, v. 23,
no. 2, p. 21-30.

DESCRIPTORS: *Steel wire, *Dies, Heating,
Processing, Friction, Temperature, Test equipment,
Tests.

I. Eichinger, A.
II. Lueg, W.

184076

Office of Technical Services

(Unannounced)

60-18857

Hempel, M[ax] and Krug, H[ermann].
INFLUENCE OF THE YIELD POINT ON THE FA-
TIGUE STRENGTH OF STEEL. tr. by C. B. Lander.
[Oct 49] [13]p. (3 figs. omitted) 23 refs.
Order from SLA mi\$2. 40. ph\$3. 30 60-18857

Trans. Kaiser-Wilhelm-Institut f[ur] Eisenforschung,
Dusseldorf Mitteilungen (Germany) 1942. v. 24. no. 7.
p. 97-103.

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I. Steel--Fatigue
I. Hempel, M.
II. Krug, H

Office of Technical Services

(Unannounced)

61-18753

Ölsen, Willy and Maetz, Helmut.
THE BEHAVIOR OF FLUORSPAR AND OF CALCIUM
PHOSPHATES IN RELATION TO THE FERROUS OX-
IDE IN THE MELT AND ITS METALLURGICAL SIG-
NIFICANCE. [1961] 97p. 84 refs.
Order from SLA \$8.60

61-18753

Trans. of Kaiser-Wilhelm-Institut für Eisenforschung
[Dusseldorf]. Mitteilungen (Germany) 1941, v. 23,
no. 12, p. 195-245.

DESCRIPTORS: *Fluorspar, *Calcium compounds,
*Phosphates, Metallurgy, *Iron compounds, *Oxides,
Slags.

(Metallurgy, TT, v. 6, no. 10)

I. Ölsen, W.
II. Maetz, H.

Office of Technical Services

Olsen, Willy and Wiemer, Hans].
IMMISCIBILITY PHENOMENA IN FERROUS-
OXIDE/SODIUM-PHOSPHATE SLAGS. Doctoral thesis
of H. Wiemer, Bonn U. Faculty for Mathematics and
Natural Science. [Aug 48] [84]p. (1 fig. omitted)
44 refs.
Order from SLA mil\$4.80. ph\$13.80 60-18858

Trans. of Kaiser-Wilhelm-Institut für Eisenforschung,
Düsseldorf. Mitteilungen (Germany) 1942, v. 24,
no. 13, p. 167-210.

142,828

60-18858

1. Slags--Chemical properties
 2. Iron oxides--Chemical properties
 3. Sodium phosphates--Chemical properties
- I. Olsen, W.
 - II. Wiemer, H.
 - III. Bonn U. (West Germany)

Office of Technical Services

(Unannounced)

Pomp, Anton and Puzicha, Wilhelm
THE COLD ROLLING OF HIGH-STRENGTH STRIP
STEELS, AND THEIR PROPERTIES, tr. by
W. B. Jones [Apr 48] 39p. (18 figs. omitted) 56 refs
Order from SIA in \$3.00, pb\$6.30 60-18859

Trans. of Kaiser-Wilhelm-Institut für Eisenforschung,
Düsseldorf: Mitteilungen (Germany) 1943, v. 26, no. 2
p. 13-36

142,838

60-18859

1. Steel--Processing
2. Sheet--Processing
3. Thin-Strip steels
1. Pomp, A.
- II. Puzicha, W.

Office of Technical Services

(Unannounced)

Lueg. Werner and Pomp. Anton.
TESTS TO DETERMINE AND PREDICT THE DRAW-
ING FORCE IN THE BRIGHT-DRAWING OF STEEL.

[Mar 47] 119p. 4 refs.

Order from SLA in \$2.90, ph \$3.30

60-18860

Trans. of Kaiser-Wilhelm-Institut für Eisenforschung,
Düsseldorf. Mitteilungen (Germany) 1944, v. 27, no. 4,
p. 43-52.

142,806

60-18860

1. Steel--Processing
2. Title: Bright drawing

- I. Lueg, W.
- II. Pomp, A.

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(Unannounced)

By Canoe Through the Mazurs and Warmia, by
J. Kuran, S. Czajkowski, 158 pp.

POLISH, bk, Kajakiem Po Mazurach i Warmii,
1956, pp 12-22; 65-394.

ACSI H-9196
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Elbur - Poland
Geog
11. Sep 61

166, 325

By Canoe Over the Waterways of Western
Pomerania, by Z. Wrzesniowski, 61 pp.

POLISH, bk, Kajakami po Wodach Pomorza
Zachodniego, 1955.

ACB1 H-9276
ID-2052824

EEur - Poland

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11 Sep 61

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English Title Unknown, by Friedrich Czapak.
GERMAN, per, Karbidier der Wissenschaftliche
Botanik, Vol 27, 1895, pp 243-339.
WASA TT P-12,638

Oct 69

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II. Title: Results ...

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