

Nuclear Reactor in France, by J. Yvon. UNCLASSIFIED

FRENCH, per, Journal of Physique et Le Radium, No
10, 1957.

Navy Tr 1631/ONI-127

AEC TR - 4402

Sci - Nuclear Physics
Mar 58

59,735

Disintegration of γ^{90} . The transition $0^+ \rightarrow 0^+$
in Zr^{90} . Limit of fierz, by M. T. Yuasa,
M. J. Laberrigue-Frolov, 15 pp.

FRENCH, per, J. phys et radium, 1/3, p 48
p 498-504, September, 1957.

AEC-tr-3121

SIA 58-505

Sc1

94, 404

Aug 59

Polarimetry in the Infrared, by R. Duverney,
A. M. Vergnoux, 21 pp.
FRENCH, per, Le Journal de Physique et le Radium,
Vol XVIII, 1957, pp 527-536. 92261509
AEC-LA-Tr-64-22

Sci-Phys
Jan 65

270,611

R-383-N

Preliminary Experiments on Radioactivities Consequent
to Explosion of Wires Containing D uterium, By
M. Bonpas

FRENCH, per, Le Journal de Physique et le Radium, Vol
XVIII, No 10, 1957, pp 585-592

*JPRS for Army Rocket and Guided Missile A
Agency

27 Sep 60

Mechanical Selector for Slow Neutrons, by G. Gobert,
B. Jacrot, 21 pp.

FINNICH, per, Journal de Physique et le Radium,
Vol XIX, 1958, pp 51A-60A. (9208243)

ADC-UCL-TR-899(L)

Sci - Phys

Jun 63

234,308

Calculations of the $\bar{\nu}$ Mean Number of Neutrons
Emitted by Induced Fission of U^{235} by Neutrons
of 14.2 MeV, by S. Blaise, M. Gaudin, et al.

FRENCH, per, Journal de Physique et le Radium,
Vol XIX, 1958, pp 66, 67.

CSIRO

Sci - Nuc Phys

Jun 61

156,456

On the Subject of Some Research and Improvement of a
High Frequency Sources of High Output, by J. Deprez.
UNCLASSIFIED

FRENCH, per, Journal de Physique et la Radium, Vol XIX,
Jan 1958, pp 85, 87. 9676440

Navy 2363/MIL 755

Sci - Physics
Nov 59

101,410

340 KV Accelerator Designed for the study of
Reactions Induced by Tritons, by D. Magnano
Valette, M. Suffert, M. Liess, P. Guer, 4 pp.

FRONCH, par, Journal de Physique et le Radium,
Vol. XIX, No 1, 1958, pp 88-91. 9073944

ACSIL Tr 1108

Sci - Phys

Feb 61

145,038

Observation of Pulsations in the Beam Emitted by a
High Frequency Source, by T. Grjebine, R. Morozov,
B. Olkovsky. UNCLASSIFIED

FRANCOIS, par, Jour de Physique et la Radien, Vol. XII.
Jan 1958, 907/1958

Navy #361/NRL 754

Sci - Physics
Nov 59

102,081

~~XXXXXX~~

The Extraction of ^{198}Hg Formed in Gold by Irradiation
With Slow Neutrons in the Saclay P-2 Reactor,
by J. Beydon, G. Delmas, et al, 8 pp.
FRENCH, per, Journal de Physique et le Radium,
Vol XIX, 1958, pp 144-146. ~~REF~~ 9226334
AEC-ORNL-Tr-308

Sci-Phys
Jan 65

272,465

Table of Hermite Polynomials for Calculating Harmonic
Wave Functions, by Raymond Grandmontagne, 7 pp.

FRENCH, par, Journal de Physique et le Radium,
Vol ~~XX~~ XIX, No 2, 1958, pp 153-158.

SLA 59-10966

Sci - Math
Sep 59
Vol 2, No 1

97756

About the Theory of the Multiplex Interferential
Spectrometer, by P. Fellgett.

FRENCH, per, Le Journal de Physique ~~et~~ et le
Radium, Vol XIX, No 3, 1958, pp 187-191.

*AFCRL Res Lib

Sci - Phys
Sept 62

Range of Application of the Fourier Transform:
Method, by J. Connes, 32 pp.
FOR OFFICIAL USE ONLY
FRENCH, per, Journal de Physique et le Radium,
Vol XXX, 1958, pp 197-208. 100007066
AFCEL T-F-73

Sci-Phys
Aug 66

309,056

Some Experimental Fourier Methods for
Examining the form and spectral rays, by
Erik Ingletam.

FRENCH, per, Le Journal de Physique et le
Radium, Vol XIX, No 3, 1958, pp 209-214.

*AFCRL Res Lib

Sci - ~~Phys~~ Phys
Sep 62

Interferential Spectrometer with Selection
According to the Amplitude of the Modulation,
by P. Connes.

FRENCH, par, Journal de Physique et le Radium,
Vol XIX, No 3, 1958, pp 215-222. 9662625

ATIC NCI-771/1

Sci - Physics

IC 42058

159,284

Jul 61

Common Characteristics of New Methods of Interference
Spectroscopy; The Merit Factor, by P. Jacquinot,
16 pp.

FRENCH, par, Le Journal de Physique et le Radium,
Vol. XLII, No 3, 1958, pp 223-229. 9668691

Amer Meteorol. Soc T-F-51

Sci - Phys
May 63

231,940

The Integral Fabry-Perot Spectrometer, by
R. Chabbal, M.R.C. Bellevue.

FRENCH, per, Le Journal de Physique et le Radium,
Vol XIX, 1958, pp 246-255.

NASA TT F-8359

Sci
Apr 63
US GOV'T ONLY

229,242

Standards of the Fabry-Perot Sphere, by P.
Connes

FRENCH, per, Le Journal de Physique et le
Radium, Vol XIX, No 3, 1958, pp 262-269.

CS 120/125. 8216

*AFCL Res Lib
SLA 63-14013

Sci - Phys
Sep 62

Photoelectric Observations with a Michelson
Interferometer, by J. Terrien.
FRENCH, per, Le Journal de Physique et le Radium,
Vol 19, No 3, 1958, pp 390-396.
Dept of Navy 5103
APL/JHU T-1961

Sci/Physics
Feb 67

318,502

On the Electronic Structure of the Transition
Metals, Their Alloys and the Heavy Metals, by
J. Friedel, 23 pp.

per
FRIEDEL, J., J Phys Radium, Vol XIX, 1958,
pp 573-581.

AEC Tr 3809

Sci - Min/Met

Oct 59

99,525

Calculation of the Eigenvalues of the Elastic
Collision Operator in a Lorentzian Gas, by
A. Arzac,

FRENCH, per, Journal de Physique et le Radium,
Vol XIX, No 7, pp 624-629, 1958. 9074577

C.S.I.R.O.

Sci - ^{Phys}

ASSIL 1149

116,361

May 60

Theoretical and Experimental Study of Transitions at
Several Quanta Between the Zeeman Sub-Levels of an
Atom, by J. M. Winter, 7 pp.

GOVERNMENT USE ONLY

FRENCH, par, Le Journal de Physique et le Radium,
Vol 19, No 11, 1958, pp 802-805.
ARM/ESTC/ET-23-202-69

Sci/Phys
July 69

387,729

Multiple Quanta Transitions and Maser Amplification
in the Two-Level Systems, by A. Javan, 6 pp.

GOVERNMENT USE ONLY

FRENCH, per, Le Journal De Physique et le Radium,
Vol 19, No 11,,pp 806-808.

ARM/FSTC/IT-23-183-69

Sci/Phys
Aug 69

388,750

Effect of Temperature on Photomultipliers and
Liquid Scintillators, by G. Laustriat, A. Coche,
9 pp.

FRENCH, per, J Phys Radium, Vol. XIX, 1958,
pp 927-929.

ABC NP Tr-441

Sci - Phys
Aug 60

123,973

Magnetic Properties of Dilute Alloys, Magnetic Interactions and Antiferro-Magnetism in Alloys of the Noble Metal-Transition Metal Type, by A. Blandin, J. Friedel, 28 pp.

PRENCH, per, ~~EXHIBIT~~ Journal of Physical Radium, 1959, pp 20-28.

ABC-Tr-5726

Sci - Mat & Met

Jul 63

238,159

A Coincidence Circuit Using Time to Pulse Height
Conversion, by S. Gorodetsky, Th. Muller, M. Port,
G. Bergolt, J. Graff, 21 pp.

FRENCH, per, J Phys Radium, Vol XI, No 7, 1959,
pp 49A-54A.

AEC HP-Tr-481

Sci - Phys
9 Mar 61

141,588

Magnetic Properties of Dilute Alloys: Magnetic Interactions and Antiferromagnetism in Alloys of the Noble-Metal-Transition Metal Type, by A. Mlandin, J. Friedel, 26 pp.

FRENCH, per, Journal de Physique et le Radium, Vol XX, Feb 1959, pp 160-168. 9208284

ABO-TX-5726

Sci - Mat & Met

Jun 63

234,282

Multiple Coherent Scattering of Optical Resonance
Radiation Applied to the 6^3P_1 Level of Mercury.
Part 1: Theory, by J. P. Barbat, 23 pp.

FRECH, per, Le Journal de Physique et le Radium,
Vol XI, No 5, 1959, pp 541-548. 9211922

Manuel Coll Res Lang Ctr
E-T-F-63-1

Sci - Phys
Sep 63

345,270
54

Transition Between Metallic and Insulating
States for an Electron Gas. Application to
Impurity Bands and to Anti-ferromagnets, by
Jacques des Cloiseaux.

FRENCH, per, Le Journal de Physique et le
Radium, Vol 20, 1959, pp 606-620.

MIT/Lin Lab

(30)-AZT-69-562-FRLL

Available NTC

Jan 70

400,324

Multiple Coherent Scattering of Optical Resonance
Radiation Applied to the 6³P₁ Level of Mercury.
Part II: Theory, by J. P. Birnir, 37 pp.

FRENCH, par, Le Journal de Physique et le Radian,
Vol. XI, No 6, 1959, pp 633-646. 9211923

Manuel Coll. Res Lang Chr
E-T-F-63-2

Sci - Phys
Sep 63

345,265

Multiple Coherent Scattering of Optical Resonance
Radiation Applied to the 6^3P_1 Level of Mercury.
Part III: ~~THE~~ Experimental Results, by J. P.
Barrat, ~~22~~ 28 pp.

FRANCE, par, Le Journal de Physique et le Radium,
Vol XI, No 7, 1959, pp 657-688. 9211924

Emmanuel Coll, Res Lang Ctr
E-T-F-63-3

Sci - Phys
Sep 63

345,266

Study of Transitions Between Metallic and
Insulating States. Application to Impurity
Bands and to Anti-ferromagnets, II, by
Jacques des Cloizeaux.

FRENCH, per, Le Journal de Physique et le
Radium, Vol 20, Aug-Sept 1959, pp 751-763.

MIT/Lin Lab

(31)-AZT-69-563-FALL

Available NTC

Jan 70

400,325

Production of Tritium in Thorium by 135 Mev
Protons, by M. Lefort, G. Simonoff, X. Tarrago,
7 pp.

FRENCH, per, J Physique et Radium, Vol XX,
1959, pp 959-962.

AEC Tr-4602

Sci
Aug 61

165, 399

Robin, Jean
EFFECT OF PRESSURE ON SOME SEMICON-
DUCTOR PROPERTIES. [1962] 19p. (figs. refs.
tables omitted).

Order from SLA \$1.60

62-16558

Trans. of [Journal de] Phys[ique et le] Radium
(France) 1960, v. 21 [no. 2] p. 130-140.

DESCRIPTORS: *Semiconductors, Germanium,
Silicon, Tellurium, *Crystal structure, Pressure,
Resistance.

After an elementary survey of some characteristic
properties, we summarize the principle work of
various authors on the influence of pressure on
intrinsic resistivity of different semiconductors.
This effect is primarily indicated by a variation in
the value E_g of the forbidden band with pressure. We
then give a sketch of two other methods of determin-
(Physics--Solid State, TT, v. 8, no. 9) (over)

62-16558

1. Robin, J.

Office of Technical Services

Measurement of High Electric Resistance
With Ionization Chamber as Current Source,
by D. Blanc, et al.
FRENCH, per, J. Phys Radium, Vol XXI, No 3,
Supp 52A-56A, 1960.
NASA TT F-8786

Sci-Phys 302,057
Jun 66
U. S. GOVERNMENT USE ONLY

Helicoidal Antiferromagnetism, by A. Herpin.
GERMAN, per, J. Phys Radium, Vol 21, 1960,
pp 67.
*AEC 127-44

Sci-Phys
Jul 68

Penrod, E. B. and Ho, Cho-yen.
**MATHEMATICAL THEORY OF A PELTIER
 REFRIGERATOR AND A THERMOELECTRIC GEN-
 ERATOR.** [1960] 30p.
 Order from ATS \$31.10 **ATS-67M47P**

Trans. of [Journal de] Phys[ique et de] Radium...
 (France) 1960, v. 21, no. 7, suppl, p. 97A-111A.

ATS-861-FJ

151573

(Engineering--Electrical, TT, v. 5, no. 8)

61-12794

1. Generators--Mathematical analysis
2. Refrigeration systems--Mathematical analysis
3. Title: Thermoelectric generators
4. Title: Peltier refrigerator
 - I. Penrod, E. B.
 - II. Ho, Cho-yen
 - III. ATS-67M47P
 - IV. Associated Technical Services, Inc., East Orange, N. J.

Office of Technical Services

62-10114

Berge, Pierre and Blanc, Georges.
ADIABATIQUE CALORIMETER. [1961] 7p. (11 figs.
omitted).
Order from SLA \$1.10 62-10114

Trans. of [Journal de Physique et le Radium] (France)
1960, v. 21, no. 7, suppl. p. 129A-133A.

DESCRIPTORS: *Calorimeters, Specific heat, De-
termination, *Heat transfer.

The apparatus described permits the specific heats
and their anomalies, between -190°C and 500°C to
be reasonably measured. In this range the accuracy
is limited by the watt meter. (Author)

(Physics--Thermodynamics, TT, v. 7, no. 9)

I. Berge, P.
II. Blanc, G.

Office of Technical Services

Measurements of the Thickness of Thin Films during
their Formation in Vacuum, by J. C. Bruyere.
FRENCH, per, J. Phys Rad, Vol 21, No 11, 1960,
pp 3A-222A
IKSDOC/Ref T 5038

Sci -
Aug 67

335,125

62-25264

I. Wang, T. C.

Wang, T. C.
INFLUENCE OF FLUCTUATIONS IN THE NUMBER
OF MOLECULES UPON THE FREQUENCY OF A
MOLECULAR BEAM TYPE MASER OSCILLATOR
[Influence des Fluctuations du Nombre des Molecules
sur la Frequence d'un Maser Oscillator a Faisceau
Moleculaire] tr. by Pablo Guzman Rujas. 4 Aug 60,
5p. 4 refs.
Order from OTS or SLA \$1.10 62-25264

Trans. of Journal de Physique et le Radium (France)
1960, v. 21, Apr, p. 261-263].

DESCRIPTORS: *Masers, *Microwave oscillators,
*Molecular beams, Frequency, Molecules, Equations.

(Physics--Electronics, TT, v. 9, no. 6)

6-20-62

Office of Technical Services

(p,xn) Reactions Induced in Gold by 155 MeV
Protons, by N. Poffe, G. Albouy, R. Bernas,
M. Gushakov, M. Riou, J. Teillac, 5 pp.

FRENCH, per, Le Journal de Physique et le Radium,
Vol XII, 1960, p 343. 9079627

ABC Tr-4662

164, 877

Sci
Aug 61

The Determination of the Direction of Arrival
and the Polarization of Atmospheric Whistlers.
Part II. The Results, by J. Delloue
EUROPEAN, per, Journal de Physique (et le Radium)
Vol 21, 1960, pp 587-599
NTC 71-16374-20H

mar 72

Variation of Photomultiplier Gain as a Function
of Pulse Rate, by R. Chery, 5 pp.

FRENCH, per, Journal de Physique et le Radium,
Vol XXI, No 3-5, 1960, pp 679-680. 5097049

ABC NF Tr-339

Sci - Phys
Apr 62

189,948

Vincent-Geisse, J. and Lecomte, J.
MEASUREMENT OF REFRACTIVE INDICES IN THE
INFRARED. [1961] 22p. 88 refs.
Order from SLA \$2.60 61-20825

Trans. of Journal de Physique et le Radium (France)
1960, v. 21, no. 11, p. 794-800.

DESCRIPTORS: Infrared research, *Infrared spec-
troscopy, Refractometers, *Refractive index,
Measurement.

There have been numerous measurements of indices of
refraction in the infrared in recent years. After point-
ing out the importance of them in various fields, we de-
scribe the methods employed, stressing the most re-
cent ones, and we append a bibliography of recent pub-
lications dealing with this problem. (Author)

(Physics--Spectroscopy, TT, v. 7, no. 3)

61-20825

I. Vincent-Geisse, J.
II. Lecomte, J.

Office of Technical Services

PROBABILITY OF IONIZATION BY THE TRANSFER OF THE
ENERGY OF EXCITED ATOMS TO MOLECULES, by H. L.
FRIEDMAN, 17 pp.
FRIEDMAN, H. L. Journal de Physique et la Radium,
vol. XLII, 1960, pp 253-255.
AEC-UCRL-Tr-10641

Sci-Phys
Mar 45

274,939

Optical Constants and Structure of Thin Films,
by P. Bouquet, P. Rouard.

FRENCH, per, Le Journal de Physique et le
Radium, Vol XXI, No 12, 1960, pp 873-892.

ERDL, Ft Belvoir
T-1435

Sci - Engr
Aug 61

164, 346

A Study of the Crystallization of Selenium,
by G. Diet,
FRENCH, Ger., J. Phys Rad., Vol 22, No 2, 1961,
pp 17A-26A
ATS 1204-PJ

Sci - Chem
Aug, 67

338,274

Excitons in Crystals of the Wurtzite Type, by
M. Balkanski, J. Oss Clodineux, 37 pp.
FRENCH, per, J. Phys Radium, Vol 22, 1961,
pp 41-49.
AEC UCRRL Tr-1308(L)

327,856

Sci - Physics
Jun 67

The Theory of Photoexcitation in Solids, by A. Meeshaen,
23 pp.
FRENCH, per, Journal de Physique et le Radium, No 22,
1961, pp 135-141. 9226787
AEC-UCRL-Tr-1121

Sci-Phys
Feb 65

273,208

Millard, Jacques.
REGULATED CURRENT SUPPLY FOR ELECTRONIC
FLASHES. [1962] 6p.
Order from SLA \$1.10 62-18912

Trans. of Journ[al] de Physique et le Radium (France)
1961, v. 22, no. 6, p. 139A-140A.

DESCRIPTORS: Electronic equipment, Capacitors,
*Current regulators.

(Engineering--Electronic, TT, v. 10, no. 6)

62-18912

1. Title: Electronic flashes
I. Millard, J.

Office of Technical Services

Theory of the Photoelectric Effect in Metals,
by A. Meessen, 45 pp.
FRENCH, per, Journal de Physique et le Radium,
No 22, 1961, pp 308-320. 9226614
AEC-UCRL-Tr-1120 (L)

Sci-Phys; Mat & Met
Jan 65

271,815

The Fundamental Photoelectric Effect in Semiconductors,
by A. Meessen, 28 pp.
FRENCH, per, Le Journal de Physique et le Radium,
Vol XXII, 1961, pp 472-480. 9226674
AEC-UCRL-Tr-19155

Sci-Phys
Feb 65

273,188

First Excited Levels of Platinum 190, by Jerzy Jast-
rowski, Pierrette Kilcher, 9 pp.

FRENCH, per, Jour Phys Radium, Vol XXII, Aug-Sep 1961,
pp 525-527.

AEC Tr-4651

Sci

Oct 61 - Jan 62

List 59 and memo 23 Jan 62

Protons, Deuterons, Tritons, and
Nuclei of He Emitted by ^{197}Au Under
the Action of 154-Mev Protons, by
Jemine Genin, Pierre Radvanyi, et al.
FRENCH, per, Le Journal de Physique
et le Radium, Vol XXII, 1961, pp 616-617.
~~PAUC DEVL-TR 1067 4232715~~
HDC Feb 13, 1966

Sci-Phys
jna 66

On Energy Conversion by Ionized
Vapor Jet, by H. Surdin.
FRENCH, par, Le Journal de Physique
et le Radium, Vol XXIII, No V, pp 297-
298, 1962 9229923
AEC BNC-Tr-9

Sci-Phys
oct 65

290,075

TT-63-20922

Klein, Siegfried and Prévé, Jacques.
CONCERNING A PROCESS OF CONVERSION OF
IONIZING ENERGY INTO ELECTRICITY. [1963] 5p
(figs omitted) Grefe
Order from SLA \$1.10

TT-63-20922

Trans. of Jour[nal] de Physique et [de] Radium (France)
1962, v. 23, no. 8/9, p. 588-589.

100-13116-1-2

I. Klein, S.
II. Prévé, J.

(Nuclear Physics--Nuclear Engineering. TT, v. 11.

Office of Technical Services

TT-64-10385

Fortini, Andre and Bourgeois, Alain le.
MEASUREMENT OF HALL MOBILITY BY THE COR-
BINO DISC METHOD (Mesure de la Mobilité de Hall
par la Méthode du Disque de Corbino). [1963] 7p 3refs
Order from SLA \$1.10 TT-64-10385

Trans. of [Journal] de Phys[ique] et le Radium (France)
1962, v. 23, no. 12, suppl. p. 163A-165A. (Abstract
available)

DESCRIPTORS: *Semiconductors, *Germanium, Single
crystals, *Hall effect, Geometric forms, Disks,

A new method for the measurement of Hall mobilities
using the Corbino disc is described, analysed, and
tested with a germanium crystal. (Author)

(Physics--Solid State, TT. v. 11, no. 9)

1. Title: Corbino disc method
- I. Fortini, A.
- II. Bourgeois, A. le

Office of Technical Services

Contribution to the Study of the Indirect Double
Pick-Up Process for the Production of Tritium by
Protons of 80 and 105 MeV in Different Targets, by
Barr, Collette, et al.

~~XXXXXXXX~~ FRENCH, par, Journal Physique et Radium,
Vol XXXIII, 1962, pp 167-172.

*AEC

Sci - Nucl Sci

Nov 62

Combes, Pierre, Duong Hong Tuan and Pinard, Jacques.
SEPARATION OF SPECTRAL LINES BY HIGH FRE-
QUENCY MODULATION. [1963] 38p. 16 refs.
Order from SLA \$2.60

62-14012

Trans. of Journal de Physique et le Radium (France)
1962, v. 23, no. 4, p. 173-182.

DESCRIPTORS: *Line spectrum, Separation, *Phase
modulation, High frequency, Sidebands, *Interfer-
ometers, Continuous spectrum.

In order to illustrate the phenomenon of "artificial
lines" by the use of a multiple reflection interferometer
(which may be regarded as a multiresonant cavity)
illuminated by a continuous spectrum, these lines are
separated into sidebands through high frequency
modulation with a Kerr cell; the resulting spectrum is
then scanned by a second interferometer. Phase modula-
tion, suppressed carrier modulation, amplitude modu-
lation, and single sideband modulation are discussed.

62-14012

I. Combes, P.
II. Duong Hong Tuan
III. Pinard, J.

(Physics--Spectroscopy, TT.
v. 10, no. 2)
Office of Technical Services

Electrostatic Energy of Ionic Lattices, by Felix Bertaut, 20 pp.
FRENCH, per, Journal Physique et Radium, VoXXIII, 1962,
pp 499-505,

AEC-AI-Tr-14

Sci - NS
Feb 64

250, 557

The Electronic Structure and Magnetic Properties of
Transition Metals and Alloys, by J. Friedel, 21 pp.
FRENCH, per, Journal de Physique et le Radium,
Vol XXIII, No 8, 9, 1962, pp 5101-~~210~~ 510. 9221917
AEC-AI-Tr-345

Sci-Phys
May 64

257,483

A Process for Conversion of Ionizing Energy
Into Electricity, by Siegfried Klein,
Jacques Preve.

FRENCH, per, Le Journal de Physique et a
le Radium, Vol XXIII, Nos 8/9,

pp 584-589. Aug-Sep 1962. 9230426

BNL-TT-8

Sci-Elect

Dec 65

C

293,347

Contribution to the Study of the Structure of Dilute
Solutions of Cobalt in Copper, by R. Tournier, J. J.
Veysale, et al, 11 pp.
FRENCH, per, Journal de Physik et Radium, x Vol XXXIII
1962, pp 672-676. 9-22-206
AEC-AI-Tr-~~400~~ 33

Sci-Nucl Sci
Mar 64

252,839

Concept of Virtual Bound Levels, by J. Friedel, 21 pp.
FRENCH, per, Journal de Physique et le Radium, Vol XXIII,
No 10, 1962, pp 692-700. 9219320

AEC-AI-Tr-64-1

Sci-Phys
Mar 64

251,212

A New Order-Disorder Transition in Fe-Ni(50-50%), by
J. Pauleve.
FRENCH, per, J. de Physique et le Radium, Vol 23, 1962,
pp 841-843.
*RTIS/NBS TT 71-53091
Available NBS Only

June 71

Thermoluminescence and Waning of Luminescence
of Magnesium Fluorogermanate, by J. Janin,
G. Josserson, et al.
FRENCH, per, Journal de Physique et le
Radium, Vol XXIV, 1963, pp 84-86.
TC-157

Sci-
Sept 66

309,776

Polarization Waves in Solids, by A. Kahane.
FRENCH, per, Journal de Physique et le Radium,
Vol 24, No 6, 1963, pp 394-404.
NTC-71-12224-20C

Nov 71

On the Problems of a Correct and Accurate
Determination of the Optical Constants of
Evaporated Metal Films, by H. Mayer.

GOVERNMENT USE ONLY

FRENCH, per, J. Phys Radium, Vol 25,
No 1/2, 1964, pp 81-87.
NASA TT F-12,264

Sci-Phys
Aug 69

388,729

Experimental Investigation of the Convection
Currents in a Liquid Sheet, by
Henri Benard, 10 pp.

FRENCH, per, Journal de Physique
Theorique et Appliquees, Ser 3, Vol IX,
1900, pp 513-524. 9700707
Dept of Navy Tr 4702/ONI 2177

Sci-Phys
Jun 66

302,072

Reversible Prints with Depth Representation,
by M. G. Lippmann.

FRENCH Aper, Journal de Physique Theorique
et Applique, Series 4, Vol 7, 1908,
pp. 821-5.

NTC 69-10606-14E

Sci-Methods

July 69

386,564

The Physico-Chemical Conditions of Cutaneous
Absorption,
FRENCH, per, Journal de Physiologie, No 46,
1954, pp 31-49.
*ACSI J-2646
ID 2204024067

Sci-Phys
Jun 67

The Characterization of Microgel and Branched
Molecules in "High Pressure" Polyethylene, by
L. Nicolas,

FRENCH, per, J Polymer Sci, Vol. XXIX, 1958,
pp 191-217.

ATS 145-FJ

Sci
Nov 59

100,408

The Structure of Polyethylene Considered as a
Mixture of n-Paraffins, by M. G. Gubler, A. J.
Kovacs, 15 pp.

FRINCH, per, J Polymer Sci, Vol XXXIV, 1959,
pp 551-564.

ATB 142-FJ
ATB 03L11F

Sci
Nov 59

100,407

The Utilization of Concentrated Solutions of
Polyvinyl Pyrrolidone as Delayed Action Vehicles,
by Pierre Durel, 45pp
FRENCH, journal, Journal des Practiciens,
8 SIA TT-64-16396

Sci - Biol
June 67

328,837

Some New Compounds of Silicon Fluoride,
by W. Knop.
GERMAN, per, Journal fur Praktische Chemie,
1858, pp 41-62.
SLA TT 64-20475

May 67 325,024

Reaction of Methyl Chloroacetate with Sodium
Cyanide, by Paul Paessler,

GERMAN, per: J. Prakt. Chem., Vol. II, No. 10,
1977, pp 125-169.

S.L.A. Tr 699/1956

Sol - Chemistry
Oct 56 CTS

39, 402

ORDER FROM NTC

Claus, A. and Runschke, G.
65. ORIENTATION OF (4--6) DICHLOR-M-XYLENE
RESULTING FROM DIRECT CHLORINATION, AND
OF SOME DERIVATIVES THEREOF. [1963] 10p.
(refs. omitted) 4 refs.
Order from SLA \$1.10 TT-63-14159

Trans. of [Journal für] Praktische Chem[ie]
(Germany) 1890, v. 42, no. 2, p. 110-126.

DESCRIPTORS: *Xylenes, Chlorination, Chlorides,
Molecular structure.

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

TT-63-14159

- I. Title: 4, 6-Dichloro-m-
xylene
- I. Claus, A.
- II. Runschke, G.

Office of Technical Services

TT-63-14158

Claus, A. and Bursert, H.
CHLORINATION PRODUCTS. LXI. CHLORINATION
SUBSTITUTION PRODUCTS OF METAXYLENE. [1962]
11p [refs omitted]
Order from SLA \$1.60

TT-63-14158

Trans. of [Journal für] Prakt[ische] Chemie (Germany)
1890, v. 40, no. 2, pp. 357-365.

DESCRIPTORS: *Xylenes, Chlorination, Chlorides,
Barium compounds, Substitution reactions,

I. Claus, A.
II. Bursert, H.
III. Title: Chlorination
substitution...
IV. Freiburg U.
(West Germany)

(Chemistry--Organic, TT, v. 11, no. 3)

Office of Technical Services

Investigations From the A. Weddige Laboratory.
VII. Contributions to the Preparation and
Knowledge of Polymeric Di- And Trichlor-Acetoni-
tril, by N. Tschorven-Iwanoff, 17 pp.
GERMAN, per, J Prakt Chem, Vol XLVI, 1892,
pp 142-151.
MEC-SC-T-64-1631 w 1632

Sci - Phys
Aug 65

287,328

ALS o

TT-65-18022

Curtius, T. and Clemm, H.
SYNTHESIS OF 1, 3-DIAMINOPROPANE AND
1, 6-DIAMINOHEXANE FROM GLUTARIC ACID
AND SUBERIC ACID, RESPECTIVELY. [1963] 20p
Order from ATS \$17.85 ATS-84Q71G

Trans. of [Journal für] Prakt[ische] Chem[ie]
(Germany) 1900, v. 62, no. 2, p. 189-211.

DESCRIPTORS: *Amines, *Propanes, *Hexanes,
Synthesis (Chemistry), *Glutaric acids, Dibasic acids.

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

TT-63-22947

- I. Title: Suberic acid
- I. Curtius, T.
- II. Clemm, H.
- III. ATS-84Q71G
- IV. Associated Technical
Services, Inc.,
East Orange, N. J.

Office of Technical Services

63-18556

I. Dubsky, J. V.

Dubsky, J. V.
THE AFFINITY SATURATION OF PRINCIPAL AND
SECONDARY VALENCES IN COMPOUNDS OF
HIGHER ORDER, PT. II. [1963] 17p 9refs
Order from SLA \$1.60 63-18556

Trans. of [Journal für] Prakt[ische] Chem[ie] (Germany)
1916, v. 97, p. 142-161.

DESCRIPTORS: *Complex compounds, Valence,
*Copper compounds, *Nickel compounds, *Zinc com-
pounds, *Mercury compounds, Iron compounds, *Iron
compounds, *Cobalt compounds, *Chromium com-
pounds, *Bismuth compounds, *Lead compounds,
Methyl radicals, Ethyl radicals, *Xanthic acids,
*Pyridines, *Ammonia, Addition reactions, *Aluminum
compounds, *Sulfonic acids.

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

Office of Technical Services

Pyrolytic Condensation of Members of the Fysidine Series, by H. Mayer, A. H. Mayer.

GERMAN, per, J Prakt Chem, Vol CII, 1921,
pp 276.

Dept of Int,
Bur of Mines,
Lignite Exper Sts.,
Grand Forks, N Dakota.

Sci - Chem
Nov 58

76.649

The Solubility of Magnesium Carbonate in Water
Containing Carbonic Acid at Higher Carbon Dioxide
Pressures and the Properties of Such Magnesium Bi-
Carbonate Solutions, by Otto Haehnel, 11pp
GERMAN, per, Journal fur Praktische Chemie,
Vol 108, 1924, No 2, pp 161-74
TC-376

Sci - Chem
June 67

328,933

Contribution to the Knowledge of Burnished Gold, by
F. Chermittius.

GERMAN, per, J Prakt Chem, Vol CIVIL, 1927, pp
245-261.

IRSDOC-12075

Sci
Aug 5;

94, 546

Salt Formation from 1,3-Diketones. Second
Report, by C. Weygand
GERMAN, per, J. Prakt Chem, Vol 116, No 2,
1927, pp 292-306.

HEW MIE
11-4-68

Sci-BM
Feb 69

369,541

Organosilicon Compounds, 1.

Phenyl Esters of Silicic Acid, by
Heinrich Jorg, Josef Stetter. GOVERNMENT USE ONLY

GERMANY, par, Journal für Praktische

Chemie, Vol CXVII, No 2, 1927,

pp 305-310. PA00108266

RISC-594

Sci-Chem
Jan 67

316, 511

Sulphide-Sulphate Reaction, by M. Trautz,
S Fakschwer.
GERMAN, per, Journal Prakt Chem, Vol 122,
1929, pp 147-181.
CSIRO/No 9702

Sci-Chem
Sept 69

392,783

The Action of Ultraviolet Radiation of Pyridine.
Part 1. A New Means of Detecting Some Primary
Aromatic Amines and Pyridine, by H. Froytag, W.
Neudert, 14 pp.

GERMAN, per, J. ~~Light~~ Chem, Vol CXXXV, No 1-2,
1932, pp 15-35.

ATB-127100

Sci

Aug 59

95,079

TT-63-18114

Metz, L.
SAFE PREPARATION OF DICHLOROACETYLENE
AS A CLASS EXPERIMENT. [1963] 4p 5refs.
Order from SLA \$1.10 TT-63-18114

Trans. of Journal für Praktische Chemie (Germany)
1932, v. 135, p. 142-144.

DESCRIPTORS: *Acetylenes, *Chlorides, Synthesis
(Chemistry), *Ignition.

1. Title: Dichloroacetylene
1. Metz, L.

(Chemistry--Organic, TT, v. 11, no. 3)

Office of Technical Services

Constitution and Reactivity. Part XIII. The
Sulfonation of Toluene and the Orienting Effect
of the Methyl Group, by K. Lauer, R. Oda,
3 pp.

GERMAN, per, J Prakt Chem, Vol CXLIII, 1935.

Assoc Tech Serv 72J15G

Sci Chem
Aug 58

70,542

Constitution and Reactivity. Part XII. The Nitration
and Sulfonation of Aromatic Compounds, by K.
Lauer, 8 pp.

GERMAN, per, J Prakt Chem, Vol CXLIII, pp 127-138,
1935.

Assoc Tech Serv 74J150

Sci - Chem
Aug 58

70, 841
90, 511

Mechanism of Hardening Phenol-Aldehyde Resins, by
Johannes Scheiber, Rudolf Barthel, 8 pp.

GERMAN, per, J fuer Praktische Chem, Vol CXLVII,
No 1/5, 1936, pp 99-109.

SLA 60-10432

Sci

Jun 60

118,330

R-4209-D/a
Chemiluminescence Cyclic Hydrazide, by
Richard Wegler.

GERMAN, per, Juornal fur Praktische Chemie,
Vol CXLVIII, No 4-6, 1937, pp 135-160.

*JPRS/Army Biol Lab

Sci-Chem
July 64

A Spatial-Energy Cause for Complex Formations,
by G. Beck, 10 pp.

GERMAN, per, Journal fuer Praktische Chemie,
Vol CLVI, No 7/8, 1940, pp 227-240.

SLA 60-10596

Sci
Jan 60
Vol III, No 5

119,053

Schulz, G. V. and Loemann, H. J.
THE KINETICS OF THE HYDROLYTIC DECOMPO-
SITION OF CELLULOSE. Rept. 261 on the Macro-
molecular Compounds. [1963] 81p. 58 refs.
Order from SLA \$8.10 63-14160

Trans. of Journal für Praktische Chemie (Germany)
1941, v. 157, p. 238-262.
A partial trans. (p. 246-248, 258-259, 262-264) is
available from SLA \$1.10 as 63-10214 [2 Dec 60] 10p.

DESCRIPTORS: *Cellulose, Decomposition, Hydroly-
sis, Stereochemistry, Molecular structure, Phos-
phoric acids, *Cellulose acetates, *Reaction
kinetics.

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

63-14160

- I. Title: Macromolecular
chemistry
- I. Schulz, G. V.
- II. Loemann, H. J.
- III. Title: Macromolecular ...

Office of Technical Services

Schulz, G. V. and Loehmann, H. J.
ON THE KINETICS OF HYDROLYTIC DECOMPOSITION OF CELLULOSE: PTS. 2, 4A, 4C. Rept. 261 on Macromolecular Compounds. [2 Dec 60] 10p. 7 refs. Order from SLA \$1.10 63-10214

Trans. of Journal für Praktische Chemie (Germany) 1941, v. 157, p. 246-248, 258-259, 262-264.

DESCRIPTORS: Dynamics, *Hydrolysis, Decomposition, *Cellulose, Polymerization, Phosphoric acids, Solutions

Contents:

Mathematical relations
Determination of the degree of polymerization of celluloses in phosphoric acid solution
Determination of the K_m constant of cellulose in phosphoric acid solution.

(Chemistry--Organic, TT, v. 10, no. 2)

63-10214

I. Schulz, G. V.
II. Loehmann, H. J.
III. Title: Macromolecular ...

Office of Technical Services

TT-63-20477

Hultzsch, K.
STUDIES IN THE FIELD OF PHENOL-FORMALDEHYDE
RESINS. I. THE REACTION OF PHENOL ALCOHOLS
WITH UNSATURATED SUBSTANCES. [1963] 21p
(refs omitted)
Order from SLA \$2.60 TT-63-20477

Trans. of Journal für Praktische Chemie (Germany)
1941, v. 158, no. 2, p. 275-294.

DESCRIPTORS: *Phenol-formaldehyde resins,
*Phenols, *Phenolic plastics, Chemical reactions,
Organic acids.

(Materials--Plastics, TT, v. 11, no. 2)

I. Hultzsch, K.
II. Title: Reaction ...

Office of Technical Services

Kera, Werner and Brenneisen, Erich.
HETEROPOLAR COLLOIDAL MOLECULES. III.
POLYMERIC AMINES AS MODELS FOR PROTEINS.
[Aug 63] [25p] 65refs
Order from SLA \$2.60

TT-64-10515

Trans. of J[ournal für] Prakt[ische] Chem[ie]
(Germany) 1941, v. 159, no. 8/10, p. 194-217.

DESCRIPTORS: *Colloids, *Polymers, *Amines,
Proteins, *Molecular structure, *Ethylamines,
Polymerization, Condensation reactions,

(Chemistry--Organic, TT, v. 11, no. 8)

TT-64-10515

1. Kera, W.
2. Brenneisen, E.
3. Title: Polymeric...

Office of Technical Services