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15 Jun 1959, pp 3421-3423.

Broken Hill Prop Co Ltd
(CRL/T 194)

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Vol. CCCLVIII, No 24, 1957, pp 3124-
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31A 60-18001

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186, 687.

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SLA 60-16998

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FRENCH, per, Comptes Rendus, Vol 248,
No 25, 1959, pp 3549-3551.
NTC 69-11343-07D

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<p>Tchao, You-Hing and Hervé, Jacques. MAGNETIC RESONANCE OF THE NITROSO-SULFO- NATE ION IN A WEAK FIELD: STUDY OF DILUTE SOLUTIONS (Résonance Magnétique en Champ Faible de l'Ion Nitrososulfonate. Etude des Solutions Diluées). [1949] 3p. 5 refs. Order from S.A. 4451-80, 4451-80 60-18136</p>	<p>60-18136</p>
<p>Travaux de l'Académie des Sciences, Paris. Comptes Rendus (France) 1949, v. 248, no. 26, p. 3696-3698.</p>	<ol style="list-style-type: none"> 1. Nitroso compounds-- Resonance 2. Sulfonates--Resonance 3. Ions--Resonance 4. Ions--Electromagnetic effects 5. Magnetic resonance-- Measurement
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<p>143,254</p>	<p>Office of Technical Services</p>
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Sp. I ref:

Order from SLA \$1.10

61-20289

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DESCRIPTORS: *Azoxynssole, *Azo radicals, *Magnetism, Transformations

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I. Bedos, P.
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SLA 60-18322

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- I. Germanium crystals--Growth
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<p>Trans. of [Academie des Sciences, Paris, Comptes Rendus (France)] v. 249, no. 5, p. 780-781.</p>	<p>142,932</p>
<p>(Engineering - Chemical, TT, v. 5, no. 3)</p>	<p>Office of Technical Services</p>

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NLI D-40-64

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NTC 69-12451-06R

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DESCRIPTORS: *Terrestrial magnetism, Magnetism,
Measurement, France, Antarctic regions, *Nuclear
explosions, Magnetic effects.

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- I. Title: "Argus experiment"
- I. Seiser, E.
- II. Title: Simultaneous ...

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Structural Clones and Regulating Genes in Protein
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NIH Tr-9-2-60

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SLA 60-18093

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Measurement of the Mechanical and Photoelastic
Characteristics of a Plastic Material Subjected
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REF 71-15551-20K

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A PHENOMENOLOGICAL THEORY OF THE ISO-THERMAL EVOLUTION OF QUENCHED GLASS

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Order from S.I.A. m\$1.80. ph\$1.80 61-10220

- 1. Class--Viscosity
- 2. Class--Elasticity
- 1. Kovacs, A.

Travaux de l'Institut des Sciences, Paris, Comptes Rendus (Paris) 1960 [v. 250, no. 1] p. 109-111.

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SI-2183

- 1. Electrolytic Cells--Sensitivity
- 2. Electrodes--Chemical properties
- 3. Vapors--Detection
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- I. Berton, A.
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NTC-71-15545-20F

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*NBS DT 70-57602

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nNFC-71-11235-07B

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NTC-71-11236-07B

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- IV. Kresge-Hooker Science
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DESCRIPTORS: *Toxicity. *Benzopyrenes. Secretion.
*Urine, Man.

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Measurement of the Mechanical and Photoelastic Characteristics of a Plastic Material Subjected to Sinusoidal Stress at Low Frequencies (Less than 50 MC), by A. Lagarde.

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NTC-71-15551-20K

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NIH 87-8-62

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RENCH, per, Comptes Rendus, Vol CCL,
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Sci - Phys

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Sci -
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DESCRIPTORS: *Chemical reactions. *Reaction kinet-
ics. Molecular structure. Molecules, Deformation,
Energy.

(Chemistry--Physical, TT, v. 6, no. 3)

61-16185

- I. Popovici, S.
- II. Pop, M.
- III. Title: Deformation...

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HRH Tr 9-3-60

Sci. - Med

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SLA 60-16086

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FRONTS, per, Compton Rendus Acad Sci, Vol CCL,
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MIH 7-37-60

Sci - Med

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A New Method for Observing the Rotokinetic Effect
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FRENCH, par, Academie des Sciences, Paris, Comptes
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Results are given of the oxidation of germanium sur-
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faces oriented according to the (111) plane at 600°,
700°, 800°C and 10^{-4} mm Hg.

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61-10192

1. Germanium--Oxidation
1. Gousskov, L.

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Use of the Method of Harmonic Excitation for the
Measurement of Mechanical and Photoelectric
Properties of a Plastic Material, by A. Lagarde
FRENCH, per, Academie des Sciences, Paris. Comptes
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Order from S.L.A \$1.10

63-10777

Trans. of Acad[émie] des Sciences [Paris], [Comptes-
Rendus] [France] 1960, v. 250, 25 Apr, p. 2853-2855
(publ. by Gauthier-Villars et Cie., Paris).

DESCRIPTORS: "Thermodynamics, Pressure, Resist-
ance, Thermal conductivity, Thermocouples

(Physics--Thermodynamics, TT, v. 9, no. 11)

63-10777

- I. Cordier, H.
- II. Malmi, R.
- III. Title: Experimental..

Office of Technical Services

Influence of Temperature on the Two Series
of Bands of the Spectrum of Green
Fluorescence From Pure Cadmium Sulfide at
Low Temperature, by Marguerite Hancie-Grillot,
Eugene F. Cross, 5 pp.

FRANCE, par, Comptes Rendus, Academie des
Sciences, Vol CCL, No 17, Apr 25, 1960,
pp 2068-2070. 9676322

FID-TR-62-131

Sci - Phys, Chem
3 May 62

194,108

61-10191

Bothorel, Pierre.
APPARATUS FOR MEASURING THE HALL EFFECT
OF PULVERULINENT SOLIDS (Appareil de Mesure de
l'Effect Hall pour Solides Pulverulents). [1960] 3p.
3 refs.
Order from SLA m\$1.80, ph\$1.80 61-10191

Trans. of Academie Des Sciences [Paris]. Comptes
Rendus [France] 1960, v. 250, no. 17 [p. 2802-2804]

Original apparatus is described that allows the direct
study of powder, without preliminary transformation.
It is maintained under constant pressure in a paral-
lelepipedal cavity during the measurement of the Hall
coefficient, the resistivity, the magnetoresistance,
and the volume mass. The influence of the pressure
on these quantities is studied to 1,000 kg. cm⁻².
(Author)

(Physics--Electronics, TT, v. 5, no. 7)

1. Metal powders--Electro-
magnetic properties
2. Title: Hall effect
1. Bothorel, P.

148,486

Office of Technical Services

PAPERS ON ULTRASTRUCTURAL CYTOCHEMISTRY. EFFECT ON
CHROMATIN, BY E. LEDUC, W. BERNHARD, 4 PP.

FRENCH, PER, COMPTES RUNDAS ACAD SIC, VOL CCL,
XIII 1960, PP 2948-2950.

NIH 6-38-62

SCI - CHEM

208,776

AUG 62

On the Reduction of Europium Sesquioxide and the
Preparation of Europium Monoxide, by Jean-Claude
Achari, 3 pp.

FRENCH, par, Comptes Rendus, Vol. ~~226~~ CCL, No 18,
2 May 1960, p 3025. 9085633

AEC Tr-5167

Sci - Chem
Aug 62

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Diffusion of Some Metals in Dilute So-
lution with U, By M. Mosse, 3 pp.
FRENCH, per, C.R. Acad. Sci. 250, 1960
pp. 3171-3173.
*NBS TR 70-57600

Sci/mat
Jul 70

Spectrum Analysis in Radio-Astronomy,
by B. Blum.

PHOTON, Computer Banding,
Vol. Sci., No 16, pp 3279-3281.

1968,

CSTRO 5005

Sci - Electron
Dec 15 61

175,690

EXPERIMENTS IN ULTRASTRUCTURAL CYTOCHEMISTRY EFFECT
ON THE ERGASTOPLASM, BY W. BERNHARD, E. LEDUC,
4 PP.

FRENCH, FIER, COMPTES RUNDAS ACAD SCI, VOL CCL, 196X0,
PP 3411-3413.

NIH 6-32-62

SCI - CHEM

208,770

AU G 62

61-10332

Mitsun, J. and Marchal, J.
STUDY OF THE STEREOSPECIFIC POLYMERIZA-
TION OF ISOPRENE INITIATED BY n-BUTYLITHI-
UM IN BENZENE. [1960] 6p. 9 refs.
Order from S.A. 601.80, p4\$1.80

61-10332

Trans. of Academie des Sciences, (Paris), Comptes
Rendus (Pratic), 1960, v. 250, no. 22, p. 3650-3652.

A kinetic study of the polymerization of isoprene initi-
ated by n-butylithium in benzene shows that the active
centers in this type of polymerization are the unasso-
ciated organo-lithium compounds present in the reac-
tive medium. (Author)

- 1. Isoprene--Polymerization
 - 2. Lithium compounds
(Organic)--Chemical
reactions
1. Mitsun, J.
II. Marchal, J.

148,490

Office of Technical Services

(Chemistry--Organic, TT, v. 5, no. 7)

On the Problem of Substitution of a Thin Plate for
the Keel of a Ship for the Purpose of Calculating
Its Resistance to Friction, by Robert-Jean Balquet,
3 pp. UNCLASSIFIED

FRENCH, REP, Comptes Rendus, Vol CCL, No 23, 1960,
pp 3773-3775. 7678677

NAVY RT32/MLL 827

Sci. - Engineering
Pub: 61

138,984

Relations Between Ozone and the Earth's
Magnetism, by A. Vassy, I. Rasool.

FRENCH, per, Comptes Rendus, Vol CCL,
1960, p 2865.

Univ of Melbourne
Languages Section
Faculty of Science
T.312

Sci - Geop
Oct 61

EXPERIMENTS IN ULTRASTRUCTURAL CYTOCHEMISTRY
DIGESTION BY PEPSIN AND TRYPSIN, BY E. LEDUC,
W. BYCZKOWSKA-SMYK, 5 PP.

FRENCH, PIER, COMPTES RUNDRES ACAD SCI, VOL CCL, 1960,
PP 4052-4054.

NIH 6-33-62

SCI - CHIM

AUG 62

208,771

Delaplace, J. and Bigot, R.
 STUDY OF γ - β AND β - α TRANSFORMATIONS
 IN THE BINARY ALLOYS URANIUM-CHROMIUM,
 URANIUM-IRON AND URANIUM-MOLYBDENUM
 WITH SMALL CHROMIUM, IRON OR MOLYBDENUM
 CONTENT EXHIBITING THEIR RAPID COOLING. 1 Jan 1941
 (p. 2 text)
 Order from SLA (MSI. 00. pMSI. 00) #1-10157

Trans. of (Academie des Sciences, Paris) Comptes
 Rendus (France) 1940, v. 250, no. 25, p. 4187-4194.

151811

(Metallurgy - Nonferrous Metals, TT, v. 8, no. 9)

#1-10157

- 1. Uranium alloys--Phase studies
- 1. Delaplace, J.
- 2. Bigot, R.

Handwritten scribble

Office of Technical Services

Behavior of Sulphur Under the Influence of a Shock
Wave, by J. Berger, S. Joigneau, G. Bottet.

FRENCH, per, Comptes Rendus Academie des Sciences,
Vol CCL, 27 Jun 1960, pp 4331-4333. 9 207635

~~AEC~~ - Sci-Tr-471

S.S.I - Chem

NSIC tr No 1760

17 Jan 63

Contribution to the study of the Hafnium-Hydrogen
system, by L. Koppang, P. Aasen, et al, 8 pp/
Norsk Papper, part, Communist Party, Vol CCL, Apr, Jan
1949, pp. 433-434. ~~SECRET~~
A.M.C.-A.H.H.-Tr-100

441-10000
JMB 65

201,003

On the True Nature of the Luminous Phenomena
Observed in Shock Tubes with Magnetic Blowing,
by H. Cloupeau
FRENCH, per, Academie des Sciences, Paris,
Comptes Rendus, Vol 251, 1960, pp 918-920
NTC 71-15316-201

nat: 72

Influence of aluminium nitride on the forgeability of
steel, by P. Hastien, P. Fortevin.
FRANCOIS, Acad Sci Paris. comptes rendus. No 251, 1960,
pp 9-1147
CRL/T 1959

Sci -
Sup. 67

340,290

On the Possibility of Observing the Cooperative
Phenomena in Nuclear Magnetism, by Anatole Abragam,
5 pp.

FRANK, per, Comptes Rendus Academie des Sciences,
Vol CCLII, No 2, 11 Jul 1962, pp 225-227.

Navj Tr 3279/REL 947

Sci - Phys

Dec 62

217,521

61-14757

I. Berge, C.

Part C
ON THE EQUIVALENCE OF THE GENERALIZED
TRANSPORTATION PROBLEM AND THE PROBLEM OF
NETWORKS. [1961] Sp. 2 refs.
Order from SLA 81.10

61-14757

Trans. of Académie des Sciences (Paris) ~~Comptes~~
Rendus (France) 1960, v. 251, no. 3, p. 324-326 (pub.
by Gauthier-Villars et Cie., Paris).

DESCRIPTORS: *Transportation, *Electrical networks,
Mathematical analysis.

275203

Office of Technical Services

(Mathematics, TT, v. 6, no. 3)

<p>Hazoni, Yehouithan. ELECTRONICS: FAST ANALOG-DIGITAL CONVERTER [1963] 5p Order from S.L.A. \$1.10</p>	<p>TT-64-14130</p>
<p>Transl. of [Académie des Sciences, Paris. Comptes Rendus (France) 1960, v. 251, no. 3, p. 343-345] (pub. by Gauthier-Villars et Cie., Paris).</p>	<p>I. Hazoni, Y. II. Title: Fast...</p>
<p>TT-64-14130</p>	
<p>(Mathematics--Computing Devices, TT, v. 11, no. 12)</p>	<p>Office of Technical Services</p>

Quenching of Vacancies in Ag, by Y. Quere
3 pp.
FRENCH, per, C.R. Acad. Sci. 251, 1960
pp. 367-369.
*IBS IT 70-57603

Sci/chem
Jul 70

GHUILLE-HOURI, A.
A SUFFICIENT CONDITION FOR THE EXISTENCE
OF A HAMILTONIAN CIRCUIT. [1961] pp. 2 refs.
OF 311 from IRLA \$1. 10 61-14758

[FRAN. Académie des Sciences [Paris].
Comptes Rendus (France) 1961, v. 251, no. 4,
p. 485-487. -

DESCRIPTION: Quantum mechanics, Theory.

This paper demonstrates a conjecture advanced by
C. Berge which generalizes both a König theorem and
a Dirac theorem. (Author)

(Physics--Theoretical, TT, v. 6, no. 7)

61-14758

I. Ghuille-Houri, A.

Office of Technical Services

Phase Contrast in Electron Microscopy, by
Jean Faget, Jean Ferre, Charles Fert.

FRENCH, per, Comptes Rendus, Academie des Sciences,
Vol CCLII, No 4, 1960, pp 526-528.

*FTD-TT-62-1505

Sci - Phys, Electron

22 Oct 62

63-12178

Navez, M. and Sella, C.
STUDY OF THE STRUCTURE OF GLASS FIBERS
AND THIN GLASS FILMS. 1961. Sp. 2 refs.
Order from MUL \$4.50 MUL-T61-6

Trans. of Academie des Sciences (Paris), Comptes
Rendus (France) 1960. v. 251, no. 4, p. 529-531.

DISCRIPTOR: *Glass, Glass textiles, Thin films,
Microstructure.

I. Navez, M.
II. Sella, C.
III. MUL-T61-6
IV. Mulholland Engineering
Translations,
Cincinnati, Ohio

(Materials--Ceramics, TT, v. 9, no. 2)

Office of Technical Services

61-14789

Beghin, A.
ON THE PROPAGATION OF WAVES IN A PARTLY
IONIZED MEDIUM. (1961) Sp. 1 ref.
Order from SLA \$1.10 61-14789

I. Beghin, A.

Trans. of Académie des Sciences (Paris) Comptes
Rendus (Physic) 1960, v. 281, no. 3, p. 664-665.

DESCRIPTORS: Sound, *Propagation, *Magneto-hydro-
dynamics, Mathematical analysis, Velocity, Damping,
Particles.

161781

The propagation equation of plane waves is described in
the case where the magnetic field is longitudinal. Then
the transverse and longitudinal modes are distinguished.
They are studied in succession for low frequencies.
Their propagation velocity and their damping coefficient
are determined. (Author)

Office of Technical Services

(Physics--Wave Propagation, TT, v. 6, no. 1)

TT-64-14057

Dulac, Jean and Durif, André.
STUDY OF TWO SPINEL ANTIMONATES (étude de
Deux Antimonates Spinelles). [1963] [7p] (foreign
text included). 3 refs
Origin from SI.A 31. 10

TT-64-14057

Transl. of [Académie des Sciences, Paris]. Compt[es]
Rend[us] (France) 1960, v. 251, p. 747-749 (pub.
by Gauthier-Villars et Cie., Paris).

I. Dulac, J.
II. Durif, A.

Office of Technical Services

(Physics--Solid State, TT, v. 11, no. 12)

62-10757

Lejus, Anne-Mirle and Collongues, Robert.
THE PERMUTATION OF AN INTERMEDIATE META-
STABLE PHASE DURING THE DECOMPOSITION OF
A NON-STOICHIOMETRIC SPINEL. [1961] (3p).

- i. Lejus, A. -M.
- ii. Collongues, R.

4 refs.
Order from S.L.A. \$1. 10

62-10717

Trans. of Acad[em]ie des Sciences, Paris. Comp[os]e
Rend[ue] (Paris) 1960, v. 251, p. 959-961 (pub. 17)
Gauthier-Villars et Cie., Paris.

DESCRIPTORS: *Spinel, Decomposition, Phase
stabil. Temperature, *Aluminum compounds,
*Oxide

Office of Technical Services

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

61-14754

Janko, Andre and Michel, Pierre.
STUDY OF NICKEL, ELECTROLYTICALLY CHARGED
WITH HYDROGEN BY DIFFRACTION AND ELECTRON
MICROSCOPY. [1961] [5p. 6 refs.
Order from SLA \$1.10 61-14754

Trans. of Academie des Sciences, Paris: (Comptes)
Rendu (France) 1960, v. 251, p. 1001-1003 (pub. by
Gauthier-Villars & Cie., Paris).

DESCRIPTORS: *Nickel, *Hydrogen, *Folts, Crystal
structure, Electron diffraction analysis, Electron
microscopy.

The evidence of a cubic face-centered nickel-hydrogen
phase of parameter 3.70 Å, which had been discovered
by X-rays, was confirmed by electron diffraction. A
second phase of the same type but of parameter 3.83 Å
was found under certain conditions. The patterns pro-
duced by these phases in thin foils exhibit a high stability.
It can be assumed that they correspond to modifications
in the thin nickel layers. (Author)

I. Janko, A.
II. Michel, P.

175205

Office of Technical Services
(Metallurgy--Structural,
TT, v. 6, no. 3)

Histoautoradiographic Study of Tritiated
Thymidine Incorporation in Cells Treated with
Trihydroxy-N-Methylindole, by M. Chevremont,
E. Boeckeland, 3 pp.

FRENCH, per, Comptes Rendus Acad Sci,
Vol CCLII, 1960, pp 1097-1099.

NIH 1-18-62

Sci - Med

186, 384

Feb 62

Coprecipitation of Palladium and Tellurium Comparison
of Thecoprecipitates With Alloys Obtained by Fusion,
by Marcelle Segui-Cros.

FRENCH, *publ*, Compt. Rend, Vol CCLI, 1960, pp 1127-1128

CIA/FDD XX-1067
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170, 171*

Sci

Oct 61

OSIB INTERNAL USE ONLY

Balkanski, M., Nazarewicz, W., and Silva, E. da.
OPTICAL ABSORPTION DUE TO THE INTRODUCTION OF CARBON IN THE LATTICE OF SILICON.
[1961] [S], p. 3 refs.
Cited from SLA 51.10

61-18280

Annales de l'Académie des Sciences [Paris]. Comptes Rendus (Practiq) 1960, v. 251, no. 13, p. 1277-1279
Publ. by Gauthier-Villars et Cie., Paris.

DESCRIPTION: *Silicon, Lattices, *Carbon, Impurities, *Infrared spectroscopy, Absorption, Crystals.

A spectroscopic study of silicon doped with carbon showed an absorption peak located at $12.20 \pm 0.05 \mu$. Infrared spectroscopy of silicon doped with carbon, therefore, affords a reliable method of qualitative detection of the presence of carbon; it can also develop into a quantitative method for determining the carbon content in silicon.

61-18280

I. Balkanski, M.
II. Nazarewicz, W.
III. Silva, E. da

(Physics--Solid State, TT,
v. 6, no. 11)

Office of Technical Services

61-20019

Lecassagne, A., Bau-Hoi, N. P., and others.
SMALL REDUCTION IN THE CARCINOGENIC
POWER ON HYDROGENATION OF HYDROCARBON
MOLECULES, LARGE REDUCTION IN THE CASE
OF THE BENZACRIDINES. [1961] 5p. 12 refs.
Order from SIA \$1.10 61-20019

I. Lecassagne, A.
II. Bau-Hoi, N. P.

Trans. of (Academie des Sciences, Paris). Comptes
Rendus (France) 1960, v. 251, no. 14, p. 1322-1324
(pub. by Gauthier-Villars et Cie., Paris).

DESCRIPTORS: *Biochemistry, *Hydrocarbons,
*Hydrogenation, Polycyclic compounds, *Benzene
derivatives, *Cancer research, Nitrogen compounds,
Chemical analysis, *Acridines.

(Molecular Sciences--Biochemistry, TT, v. 7, no. 4)

Office of Technical Services

Diffusion and Solubility of Hydrogen in Fe and High
Strength Steels, by J. Plusquellec.

FRENCH, par. Comptes Rendus Acad Sci, Vol 251,
1959, pp 1816-1819,

*Mat Bar Stand TT 70-57750

Sci-Materials
Jul 70