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Sci - Engr
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Sci - Chem
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BISI 2092

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KISI 2907

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Sci - Chem

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NY 3218

**Ed. + N/M
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WAR - France
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Sci - Chem

Sep 62

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CRL/T. 2012

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Sci - Engt
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BISI 3562

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CORROSION PROBLEMS. Quarterly rept. no. 2,
1 June-31 Aug 60. [1989] 120p. Supersedes TID-12 323.
Order from OTS or SLA \$9.60 EURAEC-30

Trans. of a rept. prepared in cooperation with Centre
Belge d'Etude de la Corrosion, Brussels; Centre
d'Etude de l'Energie Nucleaire, Brussels (Belgium);
Societe d'Etudes, de Recherches et d'Applications pour
l'Industrie, Brussels (Belgium) Sep 60.

DESCRIPTORS: Corrosion, *Corrosion research, Steel,
Stainless steel, Radiation effects, Electrolysis, Elec-
trodes, Potential theory, Potentiometers, Test meth-
ods, Corrosive liquids, Electrochemistry

(Nuclear Physics--Nuclear Engineering, TT, v. 9, no. 4)

- I. TID-12 323, superseded
- II. EURAEC-30
- III. EURATOM (Belgium)

Office of Technical Services

<p>Dejonghe, P. TREATMENT OF RADIOACTIVE WASTES. Quarterly rept. no. 1 (2d Quarter, 1960). 1960. 35p. Supersedes TID 12463. Order from OTS or SLA \$3.60 EURAEC-25</p> <p>Trans. of rept. from Centre d'Étude de l'Énergie Nucléaire, Brussels (Belgium).</p> <p>DESCRIPTORS: *Radioactive waste disposal, *Incinerators, Asphalt, Towers (Chemistry), Porous filters, *Hydrology.</p> <p>Investigations are directed towards (1) the elaboration of an incinerator for the simultaneous combustion of lignite and incongruous waste and a study of the in- solubilization of radioactive concentrates, and (2) finding a suitable tracer for measuring movements of water in the soil, actually measuring these move- ments, and establishing the physico-chemical be- havior of stored or dumped radioelements. (Nuclear Physics--Waste Disposal, TT, v. 8, no. 10)</p>	<p>42-82024</p> <p>I. Dejonghe, P. II. EURAEC-25 III. EURATOM (Belgium) IV. TID-12463. superseded</p> <p>Office of Technical Services</p>
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62-24596

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- III. TID-12464 superseded

Trans. of rept. from Centre d'Etude de l'Energie Nucléaire (Belgium).

DESCRIPTORS: *Sanitary engineering, Chemical wastes, *Radioactive waste disposal, *Purification, *Incinerators, Solubility, Smokes, Gases, Radioactive wastes, Underground structures, Hydrology, Measurement, Velocity, Water, Migration area, Soils, Fission, Isotopes, *Radioactive isotopes.

Contents:

Purification, incineration and insolubilization of smoke gases

(Nuclear Physics--Waste Disposal, TT, v. 9, no. 1)
(over)

Office of Technical Services

62-24597

REPROCESSING OF SPENT FUELS. Progress rept.
for 1960, on Contract [(008-60-4-RDB)].
1960, 100p. 21 refs.
Order from ODS or SLA \$8.60 EURAEC-81

- I. EURAEC-81
- II. EURATOM (Belgium)

Trans. of rept. from Centre d'Etude de l'Energie
Nucléaire (Belgium).

DESCRIPTORS: *Fuel processing, *Chlorination,
*Oxidation-reduction reactions, Reaction kinetics,
Elimination reactions, *Fission products, *Power
metallurgy, Uranium compounds, Fluorides, Oxides,
Fluidized solids, Fluorination, Fractionation, Gas
chromatography, Plutonium, Fission product activity,
*Reactors fuels, Decontamination

Contents:
Chlorination, by P. Speeckaert
(Nuclear Physics--Nuclear Engineering, TT, v. 8,
no. 7) (over)

Office of Technical Services

62-32034

Schmets, J.
THE REPROCESSING OF IRRADIATED FUELS.
Quarterly rept. no. 1 (Second Quarter, 1960).
28 July 60, 96p.

Order from OTS or SLA \$8.60 EURAEC-23

Trans. of rept. from Centre d'Étude de l'Énergie
Nucéaire, Brussels (Belgium).

DESCRIPTORS: *Reactor fuels, Processing, Chlorina-
tion, Uranium compounds, Carbides, Oxidation, Re-
duction, Reaction kinetics, Physical properties,
Fission products, Powders, Powder metallurgy,
Fluorides, Plutonium, Fluorination.

Contents:

Chlorination

Kinetics, physical properties

Elimination of fission products

Technology of the powders

Technology of uranium hexafluoride

Plutonium.

- I. Schmets, J.
- II. EURAEC-23
- III. EURATOM (Belgium)

(Nuclear Physics--Nuclear Engi-
neering, TT, v. 8, no. 9)
Office of Technical Services

62-32015

SWELLING OF URANIUM. Quarterly rept. no. 1.
Dec 60, 43p. 65 refs. Supersedes TID-12466.
Order from OTS or SLA \$4.60 62-32015

I. EURAEC-21
II. EURATOM (Belgium)
III. TID-12466 superseded

Trans. of rept. from Centre d'Etude de l'Energie
Nucleaire (Belgium).

DESCRIPTORS: *Uranium, *Crystal structure, *Dis-
locations, Atomic number, Bubbles, Growth, Heat
treatment, Metals, Rare gases, Fission products,
Deformation, Reduction, Platinum, Niobium, Zir-
conium, Electron microscopy.

Studies are to be made on (1) the dislocation con-
figuration of uranium and other metals of high atomic
number and different crystallographic structure, (2)
the nature of the nucleation sites of the bubbles,
(3) the mechanism of growth of the bubbles, (4) the
(Physics--Solid State, TT, v. 8, no. 5) (over)

Office of Technical Services

<p>SWELLING OF URANIUM. Quarterly rept. no. 2 (1 Jan-31 Mar 61). Mor 61, 35p. 23 refs. Order from OTS or SLA \$3.68</p> <p>Trans. of rept. from Centre d'Étude de l'Énergie Nucleaire, Brussels (Belgium).</p> <p>DESCRIPTORS: *Radiation effects, *Uranium, *Platinum, *Niobium, Foils, Annealing, Heat treat- ment, Deformation, Crystallization, Lattices, Electron microscopy, Fast neutrons.</p> <p>Ways were sought for making thin foils of uranium, platinum, and niobium.</p> <p>(Nuclear Physics and Nuclear Chemistry, TT, v. 6, no. 10)</p>	<p>62-32035</p> <p>I. EURAEC-78 II. EURATOM (Belgium)</p> <p>Office of Technical Services</p>
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62-32175

SOLID STATE DETECTOR FOR NEUTRONS.
Quarterly rept. no. 1 (Jan-Mar 60). Mar 60. 28p.
6 refs.
Order from OIS or SLA \$2.60 EURAEC-107

Trans. of Dept. from Centre d'Etude de l'Energie
Nucleaire Brusels (Belgium).

DESCRIPTORS: *Semiconductor detectors. Detectors.
Silicon compounds. Gallium. Diodes. Radiation
damage. Resistance. Hall effect. Photoelectric
effects. Temperature. Neutron counters.

Contents:
INTRODUCTION
Radiation damage studies of grown SiC diodes
Resistivity and hall measurements
The barrier counter
Progress.
(Nuclear Physics--Instruments. TT. v. 8, no. 9)

- I. EURAEC-107
- II. EURATOM (Belgium)

Office of Technical Services

52-3218-

CORROSION PROBLEMS. Quarterly rept. no. 5,
1 Apr-30 June 61. (1962) 114p.
Order from OTS or SLA \$9.60 EURAEC-141

Trans. of a rept. prepared in cooperation with
Centre Belge d'Étude de la Corrosion, Brussels;
Centre d'Étude de l'Énergie Nucléaire, Brussels
(Belgium); Société d'Études, de Recherches et
d'Application pour l'Industrie, Brussels (Belgium)
July 61.

DESCRIPTORS: Corrosion, *Corrosion research,
Steel, Stainless steel, Aluminum, Alloys, Zirconium,
Iron, Electrolysis, Electrolytic cells, Electrodes,
Potential theory, Potentiometers, Test methods,
Radiation effects, Corrosive liquids, Electrochemistry.

(See also EURAEC-94)
(Nuclear Physics--Nuclear Engineering, TT, v. 9, no. 4)

I. EURAEC-141
II. EURATOM (Belgium)

Office of Technical Services

62-32151

USE OF PLUTONIUM AS FUEL IN NUCLEAR REACTORS. Quarterly rept. no. 4, Apr-June 61, on contract 047-60-7 RDB. July 61, 83p. Order from OTS or SLA \$6.60 EURAEC-130

- I. EURAEC-130
- II. EURATOM (Belgium)

Trans. of rept. from Centre d'Étude de l'Énergie Nucléaire (Belgium).

DESCRIPTORS: *Nuclear power plants, *Reactor fuels, *Plutonium compounds, *Oxides, *Carbides, *Uranium compounds, Power alloys, Separation, Purification, Nuclear physics laboratories.

The first results of Pu oxalate solubility have been obtained. The investigation of the various factors affecting to PuO₂ dissolution speeds and the purification of Pu salts by ion exchangers was continued. Pu concentrations up to 10-5 g do not impede the fluorimetric determination of U. Dense grains produced (Nuclear Physics and Nuclear Chemistry, TT, v. 2, no. 9 (over))

Office of Technical Services

62-32156

REPROCESSING OF IRRADIATED FUELS. Quarterly
rept. no. 5, Apr-June 61, on Contract (308-60-4RDB).
28 July 61, 28p.
Order from ODS or SLA \$2.50

EURATOM-134

- I. EURALC-134
- II. EURATOM (Belgium)

Trans. of rept. from Centre d'Étude de l'Énergie
Nucléaire (Belgium).

DESCRIPTORS: *Reactor fuels, *Chlorination, *Uranium
compounds, *Oxides, *Chlorides, *Uranyl radicals,
*Reaction kinetics, Transformations, Oxidation, *Fis-
sion products, Sintering, Particles, Fluorination,
*Powder metallurgy, *Benzenes, Distilling plants,
*Fluorides, Plutonium.

Research on chlorination was continued. The chlorination
of the uranium oxide takes place in prototype pilot plants.
Practical quantitative results were obtained when trans-
(Nuclear Physics and Nuclear Chemistry, TT, v. 8,
no. 6) (over)

Office of Technical Services

<p>SWELLING OF URANIUM. Quarterly rept. no. 4 (July-Sep 61), Sep 61, 22p, 9 refs. Order from OTS or SLA \$2.60 BURABC-186</p> <p>Trans. of rept. from Centre d'Étude de l'Énergie Nucléaire Brussels (Belgium).</p> <p>DESCRIPTORS: *Radiation effects, *Uranium, *Platinum, Foils, Annealing, Grains (Metallurgy), Electron microscopy.</p> <p>(Nuclear Physics--Nuclear Engineering, TT, v. 8, no. 10)</p>	<p>62-32174</p> <p>I. EURAEC-186 II. EURATOM (Belgium)</p> <p>Office of Technical Services</p>
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62-33161

Schmets, J.
REPROCESSING OF IRRADIATED URANIUM. Quarterly report no. 2, July-Sep 61, on Contract 049-61-4 RDB. [1962] 59p. 15 refs.
Order from CTS or SLA \$5.60 EURAEC-207

- I. Schmets, J.
- II. EURAEC-207
- III. EURATOM (Belgium)

Trans. of a rept. from Centre d'Étude de l'Énergie Nucléaire, Brussels (Belgium) Nov 61.

DESCRIPTORS: *Reactor fuels, *Uranium, Processing, Gravimetric analysis, Chlorination, Fluorination, Reaction kinetics, *Plutonium, *Fission products, *Powder metallurgy.

Reduction and chlorination reactions were studied by thermogravimetry, in order to improve the cycle of retreatment by chlorination. Research was started on the transformation of chlorides into fluorides. A study was made on the reduction of U_3O_8 in the presence of (Nuclear Physics and Nuclear Chemistry, TT, v. 9, no. 1)
(over)

Office of Technical Services

<p>SOLID STATE NEUTRON DETECTOR. Quarterly rept. no. 1 (July-Sep 61). Sep 61. 13p. Order from CTS or SLA \$1.60 EURAEC-185</p> <p>Trans. of rept. from Centre d'Étude de l'Énergie Nucéaire Brussels (Belgium).</p> <p>DESCRIPTORS: *Neutron detectors, Detectors, Photoelectric effects, Resistance, Hall effect, Silicon compounds, Carbons, Single crystals, Radiation damage.</p> <p>(Nuclear Physics--Instruments, TT, v. 8, no. 9)</p>	<p>61-1219</p> <p>I. EURAEC-185 II. EURATOM (Belgium)</p> <p>Office of Technical Services</p>
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62-33169

Amelinckx, S. and others.
SOLID STATE NEUTRON DETECTOR. [Quarterly
report no. 5] 1 Oct-31 Dec 61, on Contract 079-61-10 RDM
[1962] 15p. 3 refs.
Order from OTS and SLA \$1.60 EURAEC-246

- I. Amelinckx, S.
- II. EURAEC-246
- III. EURATOM (Belgium)

Trans. of a rept. from Centre d'Étude de l'Énergie
Nucléaire, Brussels (Belgium) [1962].

DESCRIPTORS: *Semiconductors, *Solid state physics,
*Neutron detectors, *Silicon compounds, Carbides,
Diodes, Radiation damage, Hall effect, Resistance,
Spectrographic analysis.

The radiation damage program of homogeneous SiC and
diodes was continued. Measurements were made of
Hall effect and resistivity on a number of p-type crys-
tals of SiC in a temperature range between 300°K and
1300°K. From the temperature dependence of free hole
(Nuclear Physics-- Instruments, TT, v. 9, no. 1) (over)

Office of Technical Services

63-23679

Fourbaix, M.
CORROSION OF NUCLEAR MATERIALS. Special
Yug. 3, 1 Mar 60-Use 61. [1962] [88]p.
CEBELCOR-744.
Order from OTS or SLA \$8.10 BURABC-293

I. Fourbaix, M.
II. CEBELCOR-744
III. BURABC-293
IV. BURATOM (Belgium)

Trans. of a rept. from Centre Belge d'Etude de la
Corrosion, Brussels (Belgium) 18 Apr 62.

DESCRIPTORS: Corrosion, *Stainless steel,
*Corrosion inhibition, Sodium compounds, Carbonates,
Chlorides, Surface properties, Heat treatment,
Oxidation, Polarization.

An electrochemical investigation was conducted con-
cerning the circumstances accompanying local cor-
rosion and the conditions of noncorrosion of types 304,
316, and 410 stainless steel in the presence of 0.10 M
sodium bicarbonate containing various amounts of
(Nuclear Physics--Nuclear Engineering, TT, v. 10,
no. 7) (over)

Office of Technical Services

<p>Schmets, J. and others. RETREATMENT OF IRRADIATED FUELS. Quarterly rep. no. 7. 1 Oct-31 Dec 61, on Contract 049-61-4RDB [1962] 29p. Order from OTS or SLA \$2.60 EURAEC-263</p>	<p>63-13129</p>
<p>Trans. of a rept. from Centre d'Étude de l'Énergie Nucéaire, Mol (Belgium) n. d.</p>	<p>I. Schmets, J. II. EURAEC-263 III. EURATOM (Belgium)</p>
<p>DESCRIPTORS: Nuclear reactors, *Reactor fuels, *Reactor fuel processing, Chlorination, Uranium com- pounds, Chlorides, Fluorides, Chemical reactions, Reaction kinetics, Fission products, Decontamination, Powder metallurgy, Plutonium.</p>	<p>Office of Technical Services</p>
<p>(Nuclear Physics--Nuclear Engineering, TT, v. 9, no. 3)</p>	

Cardozo, R. Lopez and Dejonghe, P.
THE REMOVAL OF GASEOUS CONTAMINANTS
FROM IAR WITH A SORBANT INJECTION SYSTEM.
Special report no. 2; Presented at the International
Air Cleaning Conference, Brookhaven National Lab.,
10-12 Oct 61. [1962] 16p. 2 refs.
Order from OTS or SLA \$1.60 EURAEC-196

Trans. of rept. from Centre d'Étude de l'Énergie
Nucléaire, Brussels (Belgium) [1961].

DESCRIPTORS: *Air; *Decontamination, Gases,
Cleaning, Absorption, Towers (Chemistry), Char-
coals, Injectors, Contamination

It is shown that a sorbant injection system can be
used as a means of cleaning gases from contaminants
when low or intermediate decontamination factors are
allowed, for instance in closed circuits. The sorbant
injection system, in its simplest form, is composed
(Engineering--Sanitation, TT, v. 8, no. 9) (over)

62-33189

I. Cardozo, R. L.
II. Dejonghe, P.
III. Title: International...
IV. EURAEC-196
V. EURATOM (Belgium)

Office of Technical Services

63-15631

Schmets, J. and Speeckaert, Ph.
REPROCESSING IRRADIATED FUELS: TRIP REPT--
ARGONNE, BROOKHAVEN, OAK RIDGE, NEW YORK,
NOV-DEC 61. Special rept. 3, Nov-Dec 61, on
Contract O-9-61-4 RDB. [1962] 11p.
Order from OTS or SLA \$1.60 EURAEC-298

- I. Schmets, J.
- II. Speeckaert, P.
- III. EURAEC-298
- IV. European Atomic Energy
Community, Brussels
(Belgium)

Trans. of a rept. from Centre d'Étude de l'Énergie
Nucléaire, Mol (Belgium) n.d.

DESCRIPTORS: *Reactor fuels, *Reactor fuel
processing, Chlorination, Fluorination.

(Nuclear Physics--Nuclear Engineering, TT, v. 10,
no. 5)

Office of Technical Services

TT-63-15657

Chenebault, P. and Delmas, R.
CONTINUOUS PREPARATION IN LABORATORY OF
URANIUM DIOXIDE POWDERS SUITABLE FOR
SINTERING IN HYDROGEN AT 1650°C. Special rept.
no. 3 on Project 204, Sintering of UO_2 [1962] 25p
9refs
Contract 031-60-10 RDF
Order from OTS, SLA, or ETC \$2.60 EURAEC-346

I. Chenebault, P.
II. Delmas, R.
III. Title: Sintering...
IV. EURAEC-346
V. European Atomic
Energy Community,
Brussels (Belgium)

Trans. of a rept. from Commissariat à l'Énergie
Atomique, Paris (France) Jan 62. (Abstract available)

DESCRIPTORS: *Reactor fuels, *Uranium compounds,
Dioxides, *Sintering, Hydrogen, Powder metallurgy,
*Furnaces, Production.

The industrial trioxide prepared by continuous calcina-
tion of ammonium diuranate can be utilized as raw
material for the preparation of uranium dioxide powder
(Nuclear Physics--Nuclear Engineering, TT, v. 11,
no. 7) (over)

Office of Technical Services

REGENERATION OF IRRADIATED FUELS. Quarterly
rept. no. 4 (1st. quarter, 1961) on Contract
[008-60-48DB]. [1962] 57p. 2 refs. CEN R. 1987.
Order from DTS or SLA \$5.60 EURAEC-82

Trans. of rept. from Centre d'Étude de l'Énergie
Nucléaire, Brussels (Belgium) 15 May 61.

DESCRIPTORS: *Reactor fuels, Regeneration,
*Uranium compounds, Oxides, Chlorides, Fluorides,
Chlorination, Carbon tetrachloride, Oxychlorides,
Corrosion research, Reaction kinetics, *Powder
metallurgy, Fluidized solids, Distilling plants,
Flowmeters, *Plutonium.

Contents:
Chlorination
Kinetics
(Nuclear Physics--Nuclear Engineering, TT.v. 9, no. 3)
(over)

62-62189

- I. CEN R-1987
- II. EURAEC-82
- III. EURATOM (Belgium)

Office of Technical Services

62-32326

GROWTH OF UO_2 SINGLE CRYSTALS. Rept. 1,
1 Oct-31 Dec 61, on Contract 055-61-9 RDB. [1961] 9p.
CEN R. 2079.
Order from ODS or SLA \$1.60 EURAEC-245

I. CEN R-2079
II. EURAEC-245
III. EURATOM (Belgium)

Trans. of rept. from Centre d'Etude de l'Energie
Nucléaire, Brussels (Belgium) [1962].

DESCRIPTORS: *Uranium compounds, *Dioxides,
*Crystallization, Single crystals, Growth, Sublimation,
Crystals, Impurities.

Work was performed on two main problems concerning
 UO_2 single crystal preparation by sublimation. Improve-
ment of the furnace arrangement in order to avoid tan-
talam contamination of the crystals and the preparation
of single crystals doped with Nb_2O_5 and Al_2O_3 . During
the past period, many runs were made to determine the
(Physics--Solid State, TT, v. 9, no. 3) (over)

Office of Technical Services