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Order from SLA: \$1.60 as TT-65-13775

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Order from OTS or SLA \$2.60

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DESCRIPTORS: *Light water reactors, *Fuel elements,
*Fuel cladding, Materials, *Zirconium alloys, Nio-
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(Nuclear Physics--Nuclear Engineering, TT, v. 9,
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- I. Richter, H.
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- IV. Title: Length ...
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- VI. EURATOM (Belgium)

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THE STRUCTURE OF AMORPHOUS SELENIUM.
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Order from ATS \$39.50

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Trans. of Zeitschrift für Naturforsch[ung] (West
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DESCRIPTORS: *Selenium, Physical properties,
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Order from OTS or SLA \$5.60 EURAEC-352

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Heat treatment, Mechanical properties, Welding, Heat
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(Nuclear Physics--Nuclear Engineering, TT, v. 10,
no. 7)
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- I. Title: Sheathing
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- III. Title: On the . . .
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alloys, Fuel cladding, *Nuclear reactors, Corrosion,
Tests, Hydrogen, Cold-working, Creep, Welding,
Solubility, Light water reactors, *Reactor fuel cladding,
*Reactor materials.

(Nuclear Physics--Nuclear Engineering, TT, v. 9,
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- II. TTIS-FA-79
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Resistance measurements were made for Ge films deposited by vaporization in a high vacuum at 20° to 600°C. The shape of the resistance curves was strongly dependent on the mode of preparation of the films. In general, the resistance curves of amorphous Ge show impurity conductivity (activation energy: 0.25 to 0.65ev) and characteristic conductivity (activation energy: 0.90ev). The branches of impurity and characteristic conductivity are straight lines. In the case of impurity conductivity the dependence of the resistance and the activation energy on the impurity concentration is given by the equation:

61-10319

1. Germanium--Conductivity
2. Metal films--Conductivity
- I. Richter, H.
- II. Schneider, R.

crystalline is distinguished by a clearly expressed resistance discontinuity for special amorphous Ge films deposited by vaporization. In such cases the conversion is sudden and occurs at about 300°C. The activation energy of converted (crystalline) Ge is 0.75ev and is in agreement with measurements on crystalline Ge. (Author)

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DESCRIPTORS: *Aluminum alloys, *Mechanical prop-
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- I. Richter, H.
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TT-64-22556

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DESCRIPTORS: *Swine, *Nutrition, Diet, Food,
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- I. Title: APP supplement
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- II. Cranz, K. L.
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