

Hertzrucken, S. and Feingold, M.  
THE CALCULATION OF THE DIFFUSION COEFFICIENT IN MIXTURES OF POWDERED SUBSTANCES.  
June 47 [7]p. 8 refs. BISI-308; [DSIR LLU] M. 2770.  
Order from OTS or SLA \$1.10 61-23307

Trans. of [Zhurnal Tekhnicheskoi Fiziki] (USSR) 1940,  
v. 10, p. 574-577.

DESCRIPTORS: \*Nickel, Diffusion, Mathematical analysis, Copper, \*Powders, \*Powder metallurgy.

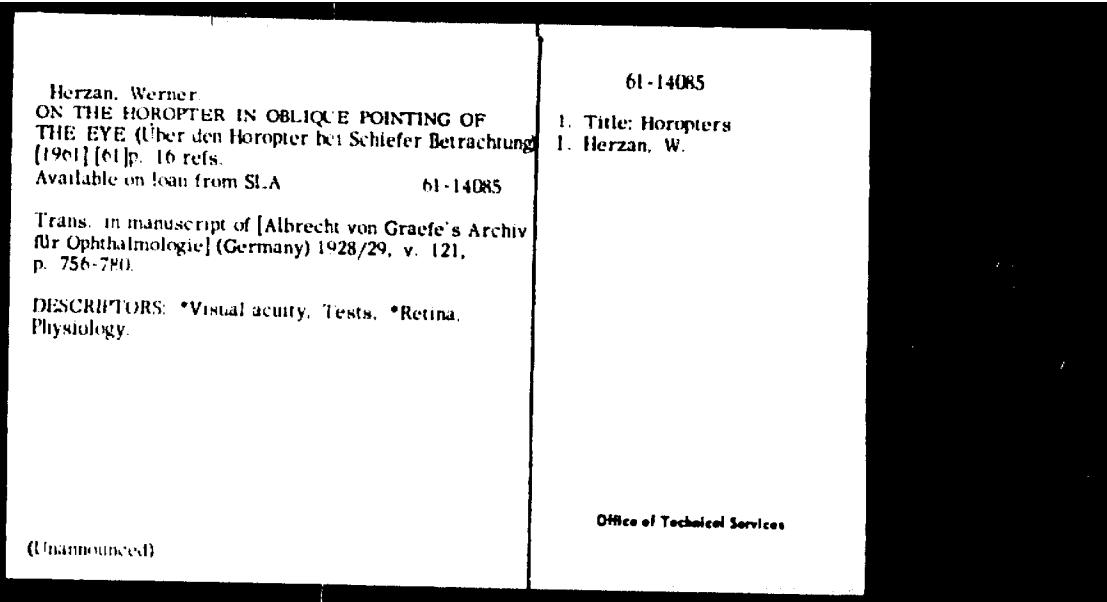
A formula for the calculation of the diffusion coefficient, deriving from the symmetrical disposition of grains in mixtures of powdered substances, is given. The calculation by means of this formula of the diffusion coefficient of nickel in copper in mixtures of powdered substances can be considered to be reliable. (Author)

(Metallurgy, TT, v. 6, no. 7)

61-23307

- I. Hertzrucken, S.
- II. Feingold, M.
- III. BISI-308
- IV. DSIR LLU M. 2770
- V. British Iron and Steel Industry Translation Service

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Portevin, R. Herzig, 16 pp.

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J. M. H. 16 Nov 60, 4p.  
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- II. Herz, E. von
- III. Patent (Germany) 377 269
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(Unannounced)

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THE NATURE OF THE THERMAL e.m.f. ARISING  
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Deformuvannya Metalu) tr. by M. Slade. [1960] [12]p.  
(foreign text included) 15 refs. Trans. no. 4812.  
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Trans. of Ukrayins'kyj Fizichnyj Zhurnal (USSR)  
1959, v. 4, no. 3, p. 293-298.

When metals are deformed both Thomson's and  
Peltier's emf change substantially because of a  
change in the electric resistance of the metals as a  
result of origination of defects in the crystal lattice  
(vacancies, dislocations, dislocated atoms, etc.).  
Since the thermal emf depends on the emf of  
Thomson and of Peltier, the principal cause of origi-  
nation of thermal emf in a couple: deformed -  
undeformed metal is a change in the electric resist-  
(Physics--Thermodynamics, TT, v. 5, no. 6) (over)

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1. Metals--Deformation
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3. Title: Electromotive force
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- II. Novikov, M. M.
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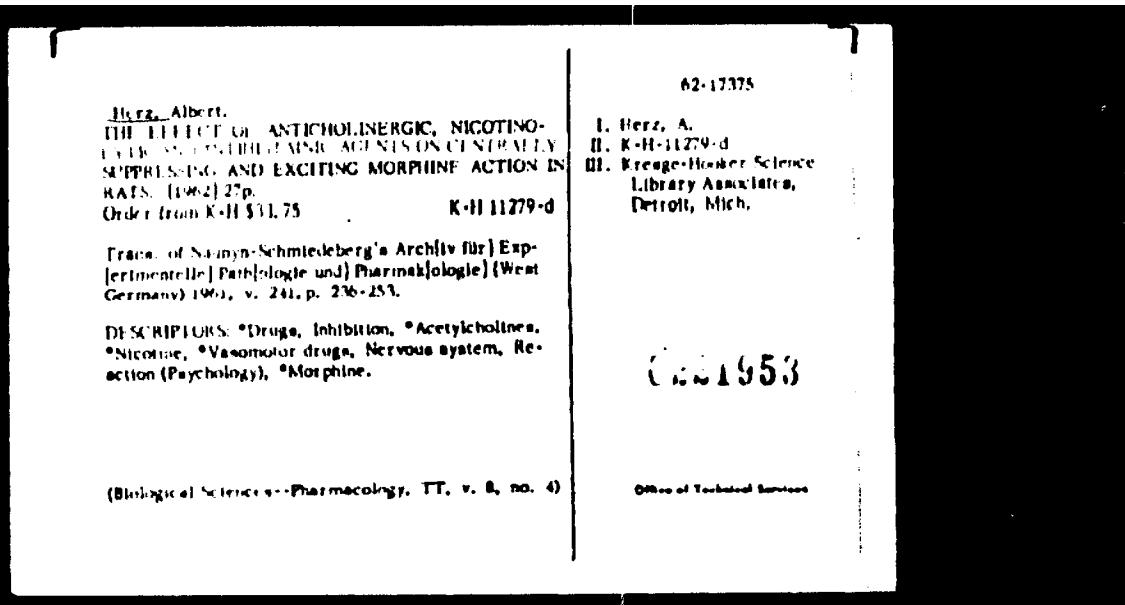
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1247354

Title of Technical Report

DESCRIPTORS: Drugs, Inhibition, \*Acetylcholines, \*Nicotine, \*Vasodilator drugs, Nervous system, Reactions (Psychology), \*Morphine, Antihistamines

Scopolamine and similar substances intensify the sedative stupor-inducing action of morphine in the rat;  
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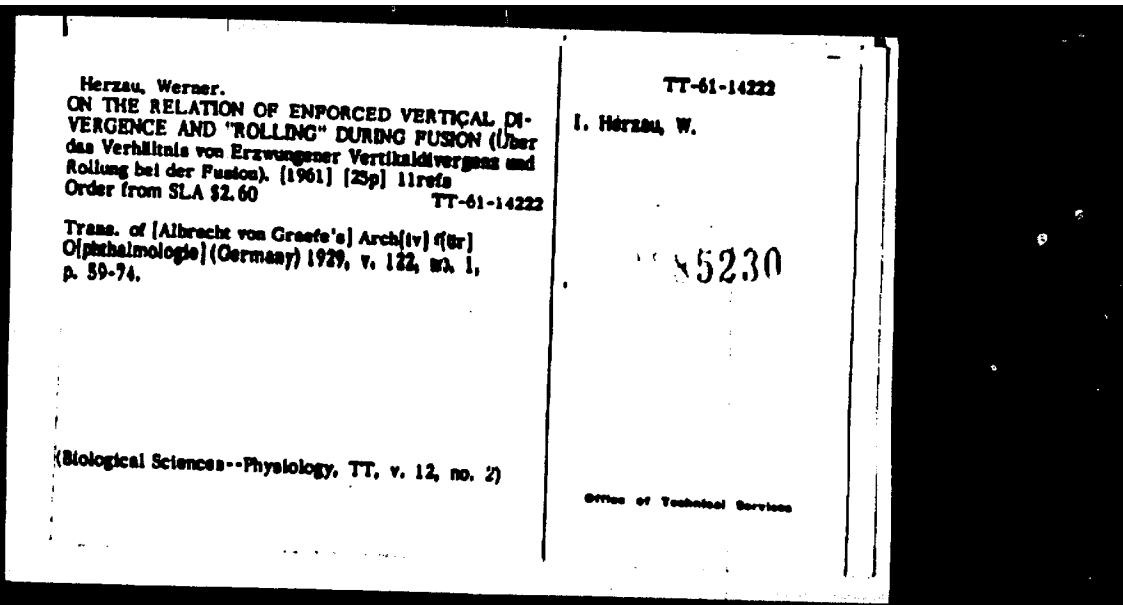
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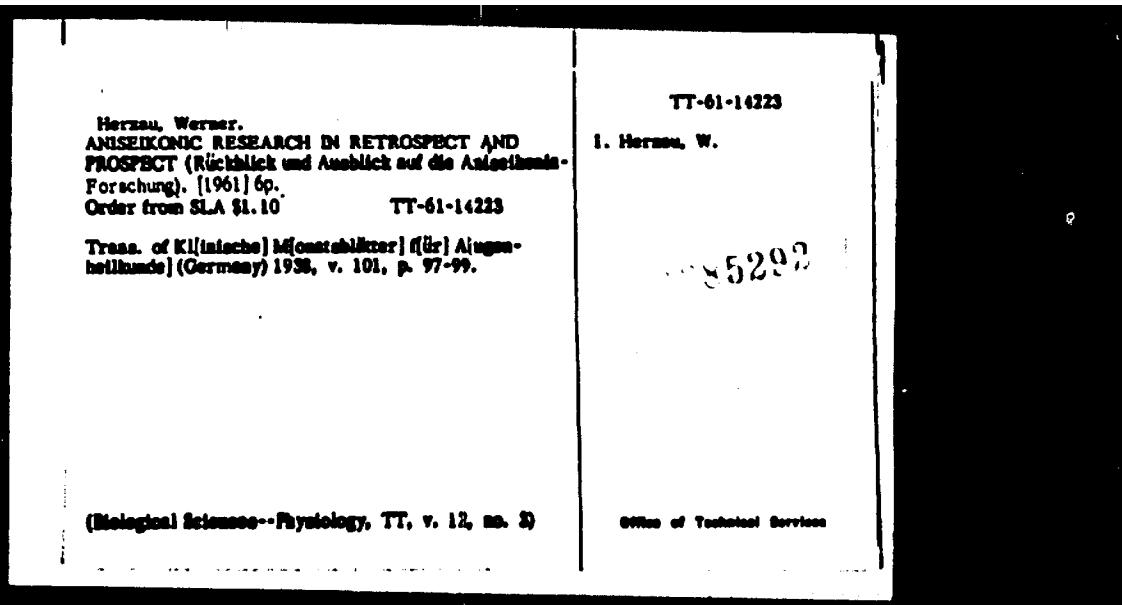
JUL 55 CMB

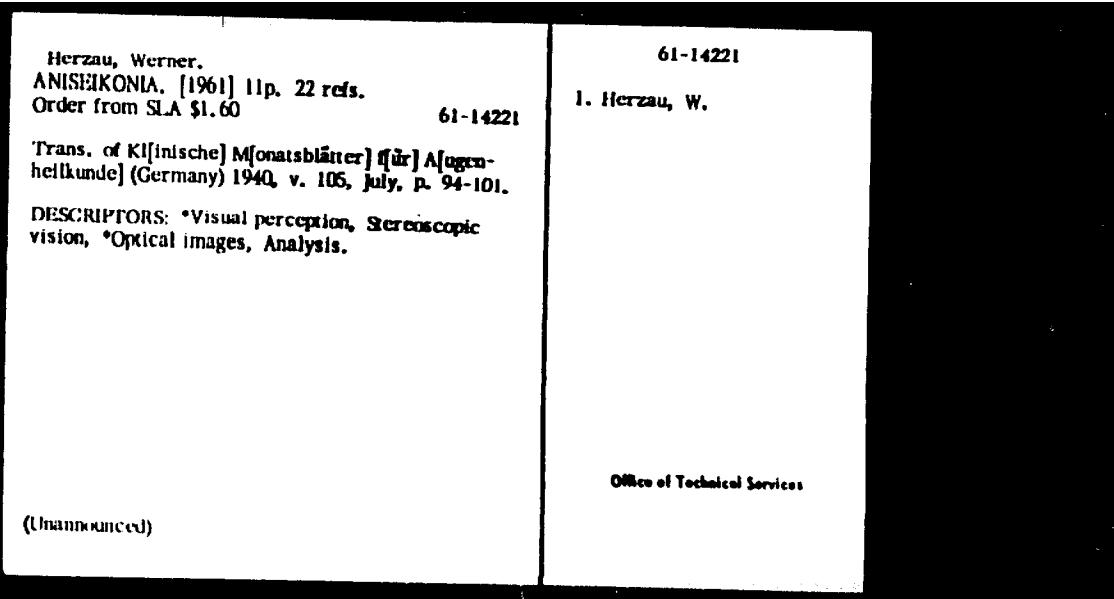
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Econ - Industry, chemical

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SLA 60-10716

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