

The Relation Between the Nernst Diffusion Layer
and the Prandtl Moving Boundary Layer, by
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~~TOP SECRET~~

A.B.R.E. Harwell,

11/3/5/437

OT/966

Scientific-Electricity

17.676

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THE ELECTROLYSIS OF AQUEOUS SOLUTIONS
WITH RANEY METAL ELECTRODES. 18 Apr 62
[18]p. 34 refs.
Order from SLA \$1.60 62-18040

Trans. of Chem[ic]-Eng[ineer]-Tech[nik] (West
Germany) 1961, v. 35, p. 75-79.

DESCRIPTORS: Electrochemistry, Electrode position,
*Electrolysis, Nickel catalyst, *Hydrogen, Voltage,
Fuel cells, Electrolytic cells, Water, D composition,
*Electrodes.

When using Raney nickel as catalyst, one obtains elec-
trodes with zero hydrogen overvoltage for the elec-
trolysis of alkaline solutions. In 27% KOH, at 80° C.
and 1500 amps/sq. m., the deviation from reversible
hydrogen potential with the double skeleton electrodes
(Chemistry--Physical, TT, v. 8, no. 9) (over)

62-18040

I. Vielstich, W.

0226067

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Deuterium and Tritium Separation Factors From
Electrolytic Evolution of Hydrogen, by H. V. Buttlar, 23
W. Vielstich, et al, 25 pp.
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AEC-NP-Tr-1155

Sci-Chem
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(Chemistry--Analytical, TT, v. 5, no. 3)

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2. Chemical reactions--
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1. Vielstich, W.

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Aug 55

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Pol
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WEur - Norway
Geog, Econ
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DESCRIPTORS: *Molding. Manufacturing methods.

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- II. Patent (Sweden) 105 422
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[chrift] (West Germany) 1948, v. 90 [no. 11] p. 331-
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DESCRIPTORS: *Plastics, Silicone plastics, Fluorine,
Halocarbon plastics, Processing, Plastic industry.

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NTC 70-17119-07D

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T-3130, \$ 4.80 (ph), \$ 2.70 (mf), 60-16232 - English

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Sharpness of the Photographic Image. [1963] 11p.
Order from ATS \$13.25

ATS-65Q68R

Trans. of Zhurnal Nauchnoi i Prikladnoi
Fotografii i Kinetografii (USSR) 1962, v. 7,
no. 5, p. 369-379.

DESCRIPTORS: *Photographic images, *Photographic
processors, Photography.

(Materials--Photographic, TT, v. 10, no. 5)

63-17374

I. Vifanskii, Yu. K.
II. Gorokhovskii, Yu. N.
III. Title: Investigation...
IV. ATS-65Q68R
V. Associated Technical
Services, Inc.,
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1242866

Office of Technical Services

Investigation of the Capacity of Photographic
Materials for Reproducing Small Details of the Optical
Image. I. Quantitative Evaluation of the Photographic
Reproduction of Two-Dimensional Subjects; II. Effect
of the Conditions of Positive Printing on the Resolving
Power of a One-Dimensional Test Object, by Yu. K.
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GAS PARTITION CHROMATOGRAPHY OF ISOBUTANE
OXIDATION PRODUCTS. [1962] 11p. (figs. omitted)
refa.

Order from: OTS or SLA \$1.60

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Trans. of Neftekhimiya (USSR) 1962, v. 2, no. 3,
p. 410-414.

DESCRIPTORS: Chemical analysis, Liquids, Oxidation, Hydrocarbons, *Hydrogen peroxide, *Chromatographic analysis, *Gas chromatography, *Butanes, Polymerization.

Analysis techniques of oxidation products of isobutane that is reduced to hydrogen peroxide were developed. Analysis of raw material and residual gas formed in oxidation process were developed. (Author)

(Chemistry--Analytical, TT, v. 9, no. 10)

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Potentiation of Aerosols Through Breathing, by E. A.
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RUSSIAN, per, Trudy Leningradskiy Nauchno-Issled Inst
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JPRS 5651

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JPRS 7026

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(NY-3000)

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7 PP.

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JPRS 13892

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Order from LC or SLA mi\$6.30, ph\$19.80 61-13805

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1948, v. 11, pt. 2, p. 39-67, 72-107, 130-131,
146-156, 159-170 and table of contents.

Contents:

Table of contents [of entire pt. 2]
Review of literature on this subject
Order of aerosol particles retained through breathing
and visible in the microscope
Obtaining of aerosol concentration in a gas chamber
Determination of the number of aerosol particles in
aerosol condensation in the industry
Retention through breathing of submicroscopical
particles of aerosol condensation.
(Biological Sciences--Toxicology, TT, v. 5, no. 5)

61-13805

1. Aerosols--Physiological effects
 2. Respiration--Physiology
- I. Vigdorzhik, Ye. A.
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Vibronic Study of the Kinetics of the Dis-
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