

Optimum Form of Industrial Vacuum Pump
Ejectors, by S. I. Vil'der, B. V.
Markachev, 8 pp.
RUSSIAN, per, Khimcheskoye Mashinostroy-
eniye, No 5, 1961, pp 10-13. 9697550
FTD-TT-65-681

Sci-Engr
Aug 65

287,052

Zhavoronkov, N. M., Safin, R. Sh., and Nikolaev, A. M.
MASS TRANSFER IN ROTARY-TYPE EQUIPMENT.
Jan 62, 4p. 6 refs.
Order from ICE in v. 2, no. 1, \$15.00/year

Trans. of Khim[icheskie] Mashinostroenie (USSR)
1961 [v. 3] no. 5, p. 15ff.

DESCRIPTORS: *Industrial equipment, Design, *Mass transfer, *Heat transfer, Gases, Velocity, Resistance, Equations, *Chemical engineering.

(Machinery--Machine Parts, TT, v. 8, no. 10)

62-34300

I. Zhavoronkov, N. M.
II. Safin, R. Sh.
III. Nikolaev, A. M.
IV. International Chemical Engineering, New York

Office of Technical Services

62-34297

Shumskii, K. P.
A NEW PRINCIPLE IN DESIGN OF EQUIPMENT FOR
VOLUMETRIC CONDENSATION OF LIQUID VAPORS
UNDER VACUUM. Jan 62, 5p. 5 refs.
Order from ICE in v. 2, no. 1, \$15.00/year

I. Shumskii, K. P.
II. International Chemical
Engineering, New York

Trans. of Khim[icheskoe] Mashinostroenie (USSR)
1961 [v. 3] no. 5, p. 29ff.

DESCRIPTORS: *Vapors, Mixtures, Separation, Con-
densation, *Electric fields, *Industrial equipment,
*Laboratory equipment, Vacuum apparatus,
*Chemical engineering.

(Engineering--Chemical, TT, v. 8, no. 10)

Office of Technical Services

(NY-3000)

Increasing Labor Productivity - the Most
Important Task of Our Times - as Applied
to Chemical Machine Building, 6 pp.

RUSSIAN, per, Khimicheskoye Mashinostroyeniye,
No 6, Nov-Dec 1961, pp 1-3.

JPBS 12729

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Mar 62

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(NY-3000)

New Compressors From the "Borets" Plant, by
S. M. Sokolovskiy, 4 pp.

RUSSIAN, per, Khimicheskaya Mashinostroyeniye,
No 6, Nov-Dec 1961, pp 7-10.

REFS 12729

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Zhivaikin, L. Ya.
LIQUID FILM THICKNESS IN FILM-TYPE UNITS.
July 62 [5]p. 33 refs.
Order from ICE in v. 2, no. 3, \$15.00/year

Trans. of Khim[icheskoe] Mashinostroenie (USSR)
1961 [v. 3] no. 6, p. 25ff.

DESCRIPTORS: *Heat exchangers, *Thin films, Liquids,
Fluid flow, Mass transfer, Viscosity, Density,
Velocity.

(Engineering--Chemical, TT, v. 9, no. 2)

63-12232 *

I. Zhivaikin, L. Ya.
II. International Chemical
Engineering, New York

Office of Technical Services

Apparatus for Cooling of Crushed Materials
in a Fluidized Bed, by K. P. Shanski,
I. S. Maksimovskaya, E. L. Lamm, 7 PP.
RUSSIAN, per, Khimicheskoe Mashinostroenie,
Vol 4, No 1, 1962, PP 7-9.
SLA TT-65-10170

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Sci
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63-12254

Konobeev, V. I. and Zhavoronkov, N. M.
HYDRAULIC RESISTANCES IN TUBES WITH NAVY
ROUGHNESS. July 62 [7]p. 8 refs.
Order from ICE in v. 2, no. 3, \$15.00/year

Trans. of Khim[icheskie] Mashinostroenie (USSR) 1962
[v. 4] no. 1, p. 14ff.

DESCRIPTORS: Hydrodynamics, *Hydraulic systems,
Pipes, Resistance, Viscosity, Pressure, Velocity, Ab-
sorption, Partial differential equations.

(Mechanics--Hydrodynamics, TT, v. 9, no. 2)

I. Konobeev, V. I.
II. Zhavoronkov, N. M.
III. International Chemical
Engineering, New York

Office of Technical Services

High Pressure Pumps, Types NPD-400M and ~~NPS-400M~~
NPS-400M, by P. T. Golovko, M. Z. Leshak, 2 pp.

RUSSIAN, per, ^{Khim} Mashinostroyeniye, No 1, Jan-Feb 1962,
pp 92-93.

JPRS 15689

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Sci-Engr
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Zhevnovatyi, A. N.
THE INFLUENCE OF THE BASIC PARAMETERS OF
HYDROCYCLONE -THICKENERS ON THEIR OPER-
ATING EFFICIENCY. Oct 62 [5]p. 7 refs.
Order from ICE Ia v. 2, no. 4, \$15.00/year

Trans. of Khim[icheskie] Mashinostroenie (USSR) 1962
[v. 4] no. 2, p. 13-17.

DESCRIPTORS: *Centrifuges, Cyclones, Separation,
Aluminum compounds, Hydroxides, *Chemical
engineering.

(Engineering--Chemical, TT, v. 9, no. 6)

63-12343

1. Title: Hydrocyclones
- I. Zhevnovatyi, A. N.
- II. International Chemical
Engineering, New York

Office of Technical Services

(NY-3000)

PRINCIPAL PROBLEMS IN COMPRESSOR BUILDING,
4 PP.

RUSSIAN, PER, KHIM MASHINOSTROYENIYE, MAR/APR
1962, PP 1, 2.

JPRS 14113

USSR
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JUN 62

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(NY-3000)

NEW MACHINES, APPARATUS, AND INSTRUMENTS,
4 PP.

RUSSIAN, PER, KHIM MASHINOSTROYENIYE, MAR/
APR, 1962, PP 41-44.

JPRS 14113

USSR
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JUN 62

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EXPERIENCE IN THE APPLICATION OF POWDER
METALLURGY, BY R. N. GAREYEV, 3 PP.

Khim
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MAY-JUN 1962, PP 3-4.

JPRS 15807

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FOR CLUTCHES OF HEAVY MECHANICAL PRESSES, BY
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SCI-MET
NOV 62

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Light Resistance of Polypropylene and Propylene-
Base Fiber, by L. G. Tokareva, N. V. Mikhaylov,
7 pp.
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FTD-TT-65-21

Sci - Phys
Aug 65

284,394

(DC-1830)

NEW MACHINES, APPARATUS, INSTRUMENTS, 5 PP.

RUSSIAN, PER, KHIMICHESKOE MASHINOSTROYENIYE,
NO 3, MAY-JUN 1962, PP 44-46.

JPRS 14713

USSR
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SCI - ENGR
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March Plenum of the Central Committee of the CPSU
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V. B. Nikolayev, A. V. Flaykin, 10 pp.

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No 4, July-Aug 1962, pp 1-3.

JPRS 15689

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No 4, Jul-Aug 1962, pp 4-~~5~~ 6.

JPRS 15689

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Sci-M/M

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(NLL/5828.4 1963(5261))

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Standardization of Self-acting Valves for
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Kondrat'eva.

RUSSIAN, per, Khimicheskoe Mashinostroeniye,

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NLL RTS 2452 (On Loan or Purchase)

Aug 65

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Teflon Packing for High-Pressure Compressor
Glands, by M. A. Berlin.
RUSSIAN, per, Khimicheskoye Mashinostroeniye,
1962, No 4, pp 39.
NLL RTS 2453 (On Loan or Purchase)

Aug 65

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New Machines, Apparatus and Instruments, 9 pp.

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No 4, Jul-Aug 1962, pp 43-45.

JPRS 15689

215,816

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XSci-Engr
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PLUNGER, BY V. I. TETERYUKOV, G. FEOKTISTOV,
ET AL, 5 PP.

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NO 5, SEP -OCT 1962, PP 1-3.

JPRS 16229

USSR
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SCI - ENGR
NOV 62

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Gel'perin, N. L., Ainshtein, V. G., and
Aronovich, F. D.
THE EFFECT OF SCREENING ON HEAT TRANSFER
IN A FLUIDIZED BED. Apr 63, 6p. 8 refs.
Order from ICE in v. 3, no. 2, \$15.00/year

Trans. of Khimicheskoe Mashinostroenie (USSR) 1962
[v. 5] no. 5, p. 13ff.

DESCRIPTORS: Chemical engineering, *Heat transfer,
Shielding, *Fluidized solids, Heat exchangers, Coils,
Pipes.

(Physics--Thermodynamics, TT, v. 10, no. 3)

63-17504

1. Title: Screening
I. Gel'perin, N. L.
II. Ainshtein, V. G.
III. Aronovich, F. E.
IV. International Chemical
Engineering, New York

Office of Technical Services

The Production of Liquid Oxygen Using an Average-
Pressure System With Nitrogen Circulation, by
A. G. Golovintsov, M. B. Stolper, 11 pp.
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No 5, 1962, pp 17-20. 9668493
FTD TT-63-113

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Sci - Chem
May 63

CHEMICAL & INDUSTRY IMPLEMENTS DECISION OF
XXII CPSU CONGRESS, 11 PP.

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NO 6, 1962, PP 1-3.

JPRS 17843

USSR
ECON
MAR 63

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Solntsev, M. Ya., Bobe, L. S., and Korotseva, G. K.
DETERMINATION OF THE COEFFICIENTS OF HEAT
TRANSFER FROM A GAS TO A BED OF FREE-
FLOWING MATERIALS. Apr 63, 5p. 14 refs.
Order from ICE in v. 3, no. 2, \$15.00/year

Trans. of Khimicheskoe Mashinostroenie (USSR) 1962
[v. 5] no. 6, p. 8ff.

DESCRIPTORS: Chemical engineering, *Heat transfer,
Determination, Separation, Cooling, *Gases, Viscosity,
Thermal conductivity, Hydrodynamics, Silicon com-
pounds, Dioxides, Carbon, Basalt.

(Physics--Thermodynamics, TT, v. 10, no. 3)

63-17510

- I. Solntsev, M. Ya.
- II. Bobe, L. S.
- III. Korotseva, G. K.
- IV. International Chemical
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Office of Technical Services

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THE PROBLEM OF CALCULATING CIRCULAR TUBULAR GRIDS IN HEAT EXCHANGERS. Apr 63, 6p.
4 refs.

Order from ICE in v. 3, no. 2, \$15.00/year

Trans. of Khimicheskoe Mashinostroenie (USSR) 1962
[v. 5] no. 6, p. 14ff.

DESCRIPTORS: Chemical engineering, Heat exchangers, Cylindrical bodies, Pipes, Design.

(Physics--Thermodynamics, TT, v. 10, no. 3)

63-17511

I. Kitover, K. A.
II. International Chemical
Engineering, New York

Office of Technical Services

Effect of Carbon Content and of Pouring Temperature
Upon Hot Tearing of 28% Cr Steel Castings, by
I. M. Yazovskikh et al.

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HB 5844

Sci-M/M
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9 PP.

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JPRS 18289

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THE OUTPUT OF CHEMICALS, BY M. D. MAZO, 12 PP.

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JPRS 18289

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PROSPECTS FOR DEVELOPING NEW STEELS FOR USE IN
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JPRS 18289

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APR 63

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THE WORM DEVULCANIZER 320, BY YU. P. VERTEBNYY,
5 PP.

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JPRS 18289

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ECON
APR 63

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EQUIPMENT, 13 PP.

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APR 63

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RUBBERIZED SHEET FILTERK LV-100G, BY S. G. AYRAPETOV,
6 PP.

RUSSIAN, PER, KHIM MASHIN, NO 2, 1963, PP 3, 4

JPRS 19250

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ECON
MAY 63

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PIPE, BY P. V. VLASOV, V. T. KOPYLOV, 5 PP.

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JPRS ~~237,088~~ 20280

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JULY 63

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1963, PP 1-4.

JPRS 21271

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~~are-Wall Reconditioning~~ of ~~High-Pressure~~ Vessels, by G. Kh. Farber, D. G. Nik-
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Magnetic Testing of the Hardness of Steel Tubing,
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WDec 63

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6p Sreft

Order from ICE \$15.00/year in International Chemical
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[v. 5] no. 6, p. 11-16.

(Engineering-Chemical, TT, v. 12, no. 4)

TT-64-22217-2 (p. 198-203)

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- II. Alashov, V. G.
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- IV. Kogan, A. S.
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Methods of Welding Titanium in Chemical
Machine Building, by V. A. Toropov, 12 pp.
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AIR/FTD/MT-24-38-68

Sci/mechan engr
feb 69

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Sept 66

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*FTD¹MT-64-130

Sci - Chem
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Sci - Min/met, Chem
Jan 59

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3 pp.

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(NY-1530)

Development of Chemical Industry During the Sixth
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Sci - Chemistry
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Development of the Synthetic Organic Materials
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ATS-29M47R
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OTS-TT-64-10101

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USIS INTERNAL USE ONLY

<p>Kruzhlov, B. D. and Sergeyev, P. G. PRODUCTION OF PHENOL AND ACETONE FROM ISOPROPYLBENZENE. [1961] 20p. 35 refs. Order from LC or SLA ml\$2.40, pt\$3.30 61-10974</p>	<p>61-10974 1. Phenol--Synthesis 2. Acetone--Synthesis 3. Benzenes--Chemical reactions I. Kruzhlov, B. D. II. Sergeyev, P. G.</p>
<p>Trans. of <i>Khimicheskaya Nauka i Promyshlennost'</i> (USSR) 1956, v. 1, no. 3, p. 287-297. Another translation is available from ATS \$28.50 as ATS-90M42R [1960] 20p.</p>	<p>ATS 90M42R ATS/RJ-2486 145752</p>
<p>A review of data published in the foreign press (American, Canadian, etc.) on the simultaneous production of phenol and acetone indicates that this method is valued by the industry as perhaps the most promising and profitable method for the production of these products.</p>	<p>Office of Technical Services</p>
<p>\$00/c per volume 14 Oct 60</p>	
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AWRE Tr-13

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A Continuous Process for the Saponification of
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Simultaneous Extraction and Regeneration of the
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UNCL

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Sci - Chem
Aug 59

(NY-1531)

Methods and Economics of Obtaining Acetylene, by
N. P. Fedorenko, 17 pp. UNCLASSIFIED

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US JPRS/NY-L-81

Sci - Chem
May 58

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ETHYLENE OXIDES. [1962] 5p. [refs. omitted].
Order from OTS or SLA \$1.10 62-14912

Partial trans. (p. 440-442) of Khimicheskaya Nauka i Promyshlennost' (USSR) 1956, v. 1 [no. 4]
p. 433-442.

DESCRIPTORS: *Ethylene oxide, *Cancer, *Chemotherapeutic agents, Drugs

(Biological Sciences--Pharmacology, TT, v. 8, no. 7)

62-14912

I. Larionov, L. F.

Office of Technical Services

Modern Methods of Separating Rare Earths, by I. M.
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Co-op Tr Sch Tr 392

Sci - Chemistry
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DESCRIPTORS: *Sulfuric acid, *Aerosols, Liquids,
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