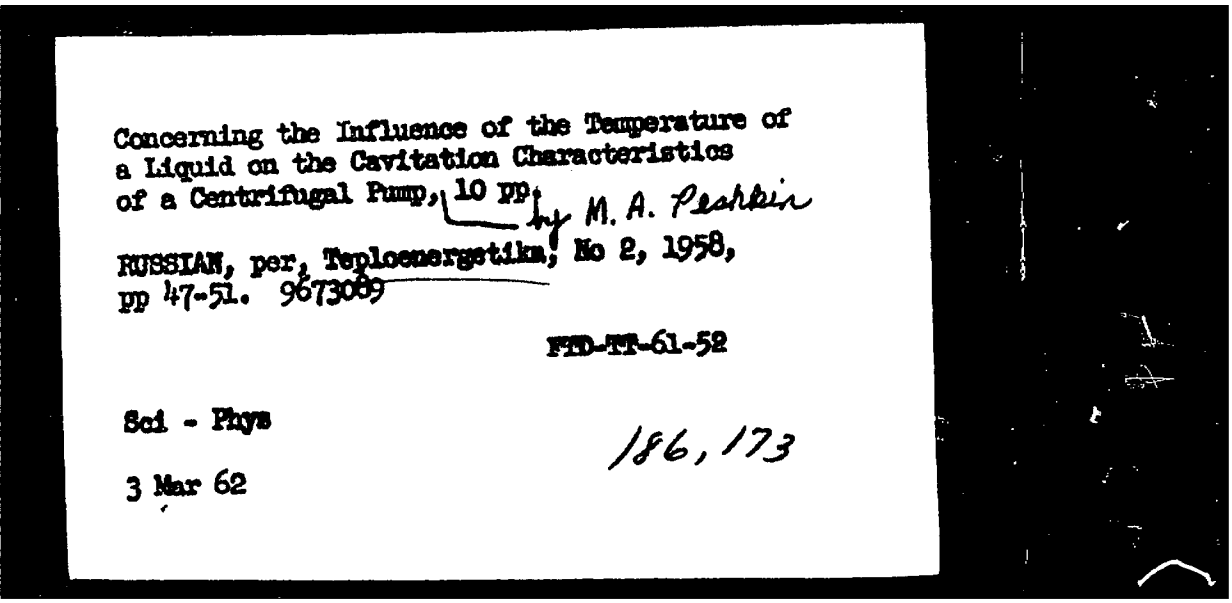


Concerning the Influence of the Temperature of a Liquid on the Cavitation Characteristics of a Centrifugal Pump, 10 pp, by M. A. Peshkin

RUSSIAN, per, Teploenergetika, No 2, 1958, pp 47-51. 9673089

FTD-TT-61-52

Sci - Phys

3 Mar 62

186,173

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9

Creep in Semi-Annular Plates, by P. Ya. Boguslavskiy.

RUSSIAN, per, Teploenergetika, No 2, 1958, pp 56-61.

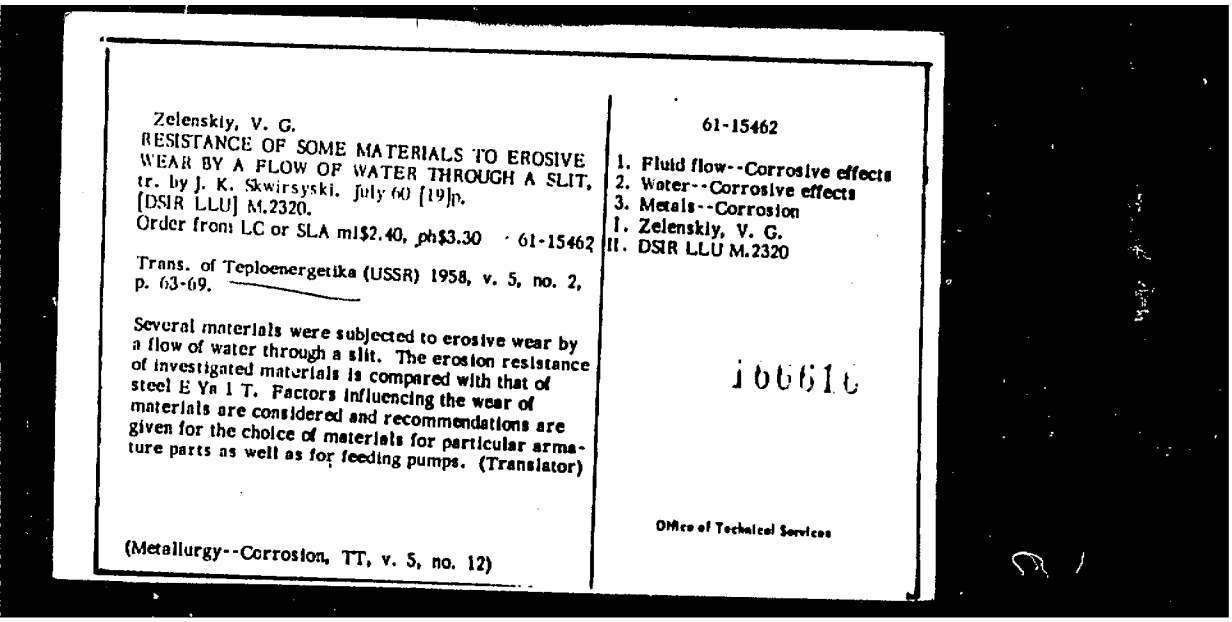
BISI 1441

Sci - Engr

Jun 61

150542

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9



Zelenskiy, V. G.
RESISTANCE OF SOME MATERIALS TO EROSIVE WEAR BY A FLOW OF WATER THROUGH A SLIT, tr. by J. K. Skwirsyski. July 60 [19]p. [DSIR LLU] M.2320.
Order from: LC or SLA ml$2.40, ph$3.30 · 61-15462

Trans. of Teploenergetika (USSR) 1958, v. 5, no. 2, p. 63-69.

Several materials were subjected to erosive wear by a flow of water through a slit. The erosion resistance of investigated materials is compared with that of steel E Ya 1 T. Factors influencing the wear of materials are considered and recommendations are given for the choice of materials for particular armature parts as well as for feeding pumps. (Translator)

(Metallurgy--Corrosion, TT, v. 5, no. 12)

61-15462

1. Fluid flow--Corrosive effects
2. Water--Corrosive effects
3. Metals--Corrosion
I. Zelenskiy, V. G.
II. DSIR LLU M.2320

106616

Office of Technical Services

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9

The Effect of the Temperature Factor on Heat Transfer in the Turbulent Flow of a Gas in Pipes, Part I, by N. I. Ivashchenko, 10 pp.

RUSSIAN, per. Teploenergetika, No 2, 1958, pp 72-75. 920.090.

AEC/AERE Tr 911

Sci - Phys

May 63

930.916

Experimental Investigation of the Effect of Vibration of Heat Transfer During Boiling, by V. P. Kovalenkov. UNCLASSIFIED

RUSSIAN, per, Teploenergetika, No 2, 1958, pp 76, 77.

*DSIR/TCL 110

Sci - Phys

Co-op Tr Sch 595

Nov 58

82,019

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9

Boiling of Freon 11, Methylene Chloride and Benzene on a Horizontal Pipe, by V. G. Fastovskiy, et al. UNCL

RUSSIAN, par, Teploenergetika, No 2, 1958, pp 77-80.

DSIR LIU RES 1026

10s.

Sci - Chem
Jun 59

88,476

Gel'man, L. I.
HEAT EXCHANGE BY DROP CONDENSATION OF MERCURY VAPOR [Teploobmen pri Kapel'noi Kondensatsii Rtutnogo Para]. 1962, 8p.
Order from MUL $8.50 MUL-T62-2

Trans. of Teploenergetika (USSR) 1958, v. 5, no. 3, p. 47-50.

DESCRIPTORS: *Heat exchangers, *Mercury, Vapors, Condensation, Power plants, Heat transfer.

(Physics--Thermodynamics, TT, v. 9, no. 2)

63-12380

I. Gel'man, L. I.
II. MUL-T62-2
III. Mulholland Engineering Translations, Cincinnati, Ohio

AEC-AML-Tr-11
(9:2 Heat)

Office of Technical Services

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9

Long-Term Strength of Tubes Under Complex Loads, by B. V. Zver'kov. UNCLASSIFIED

RUSSIAN, per, Teploenergetika, No 3, 1958, pp 51-55

Co-op Tr Sch 593

Sci - Engr

Mar 59

82,413

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9

Certain Problems Concerning the Theory of Heat Exchange in the Laminar Flow of a Fluid in Pipes, by B. A. Lavuntsov.

RUSSIAN, per, Teploenergetika, No 3, 1958, pp 55-60.
9661807.

ATIC F-TS 9958/V

Sci - Phys
Jun 61

155,521

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9

Tulin, S. N.
HEAT TRANSFER AND RESISTANCE IN BUNDLES OF WIRE-FINNED TUBES (Teplootdacha i Soprotivleniye v Puchkakh Trubok s Provolochnym Orebreniyem). Jan 61 [17]p. 5 refs. RTS 1728. Order from LC or SLA mi$2.40, ph$3.30 61-15630

Trans. of Teploenergetika (USSR) 1958, v. 5, no. 3, p. 67-72.

A description is given of an experimental investigation of the heat transfer and aerodynamic resistance of bundles of wire-finned tubes. Generalized empirical numerical formulae are recommended. (Author)

(Metallurgy--Nonferrous Metals, TT, v. 5, no. 8)

61-15630

1. Brass tubing--Heat transfer
2. Brass tubing--Aerodynamic characteristics
3. Copper wire--Heat transfer

I. Tulin, S. N.
II. RTS-1728
III. Department of Scientific and Industrial Research (Gt. Brit.)

151663

152, 240

Office of Technical Services

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9

About Fluxing of Coals With the High Heat Melting Ashes at Cyclone Method of Fuel Burning, by I. J. Zalkind, et al.UNCL

RUSSIAN, per, Teploenergetika, No 4, 1958, pp 34-41.

Co-op Tr Scheme 554

Sci - Min/Met
Mar 59

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9

Equation of State, Thermodynamic Functions and Standard Tables for Water and Superheated Steam to 1000 atm. and 1000°C, by M. P. Vukalovich, et al.

RUSSIAN, per, Teploenergetika, No 4, 1958, pp 46-52.

Infosearch Ltd.

Sci - Phys
Sep 59

96,401

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9

Experimental Investigation of the Compressibility of Water and Steam Near the Critical Temperature Range, by V. A. Kirillin, et al.

RUSSIAN, per, Teploenergetika, No 4, 1958, pp 53, 54.

Infosearch Ltd.

Sci - Phys
Sep 59

96,402

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9

Water and Steam Contents in Surface Boiling of Water, by P. G. Poletavkin, N. A. Shmykin, 6 pp.

RUSSIAN, ncr, Teploenergetika, Vol V, No 4, 1958, pp 54-58.

Del - Foye

May 59

On Heat Exchange at Turbulent Flow of Liquid in Tubes, by B. S. Petukhov, V. V. Kirillov.
UNCL

RUSSIAN, per, Teploenergetika, No 4, 1958, pp 63-69. 9662676

possible *ATIC F-TS-9959/V

Co-op Tr Scheme 613

Sci - Phys
Mar 59

82,522

Accounting for the Effect of Unstable Conditions at the Convective Heat Exchange, by E. A. Sidorov.

RUSSIAN, per, Teploenergetika, No 4, 1958, pp 79, 80. 9662616.

ATIC FTS-9959/1

Sci - Physics

Jul 61

159,264

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9

Experimental Relations for the Heat-Transfer Coefficient in Steam-Turbine Condensers, by L. D. Berman.

RUSSIAN, per, Teploenergetika, Vol V, No 4, 1958, pp 82-86.

Sci - Phys

Sep 60

125,587

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9

Gasification of Pulverized Coal at High Intensity in a Bed of Lump Fuel Under Pressure, by Kh. I. Kolodtsev, V. I. Babii. UNCL

RUSSIAN, per, Teploenergetika, Vol V, No 5, 1958, pp 25-31.

Sci - Fuels
Aug 59

94, 845

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9

Thermal Characteristic Curves for Heat Exchangers, by E. Ya. Sokolov. UNCL

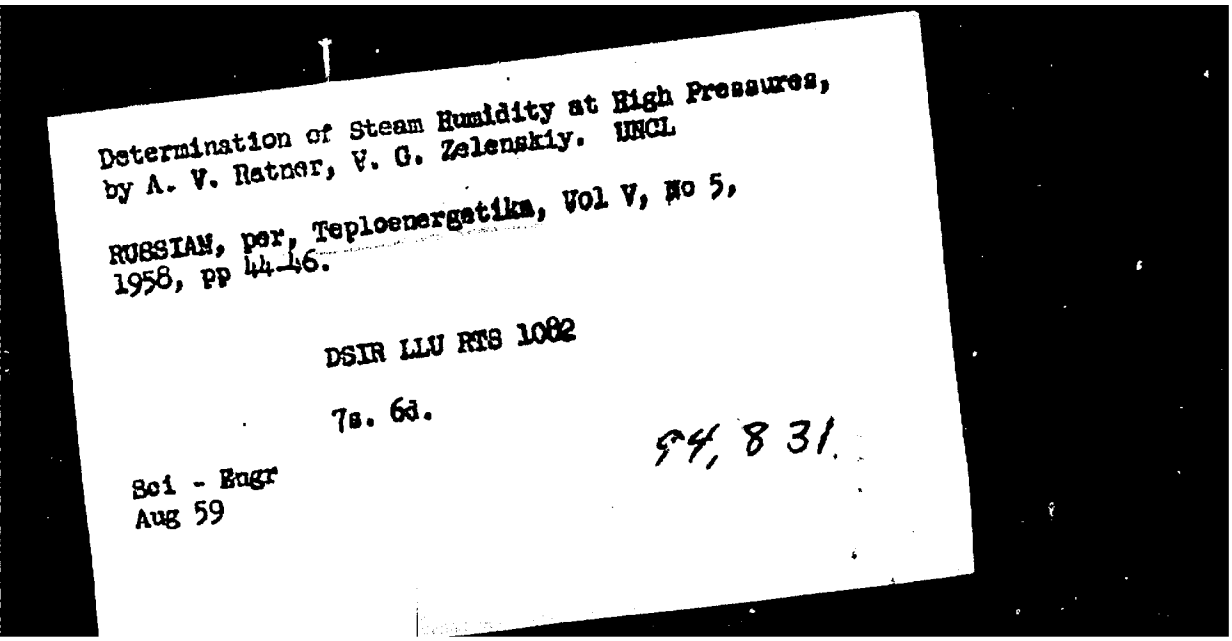
RUSSIAN, per, Teploenergetika, No 5, 1958, pp 38-43.

Address

M. Tollemache - 52
The Old Rectory
Lewknor, Oxon.
CSIRO

Sci - Phys
Jan 59

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9



Determination of Steam Humidity at High Pressures,
by A. V. Ratner, V. G. Zelenskiy. UNCL

RUSSIAN, per, Teploenergetika, Vol V, No 5,
1958, pp 44-46.

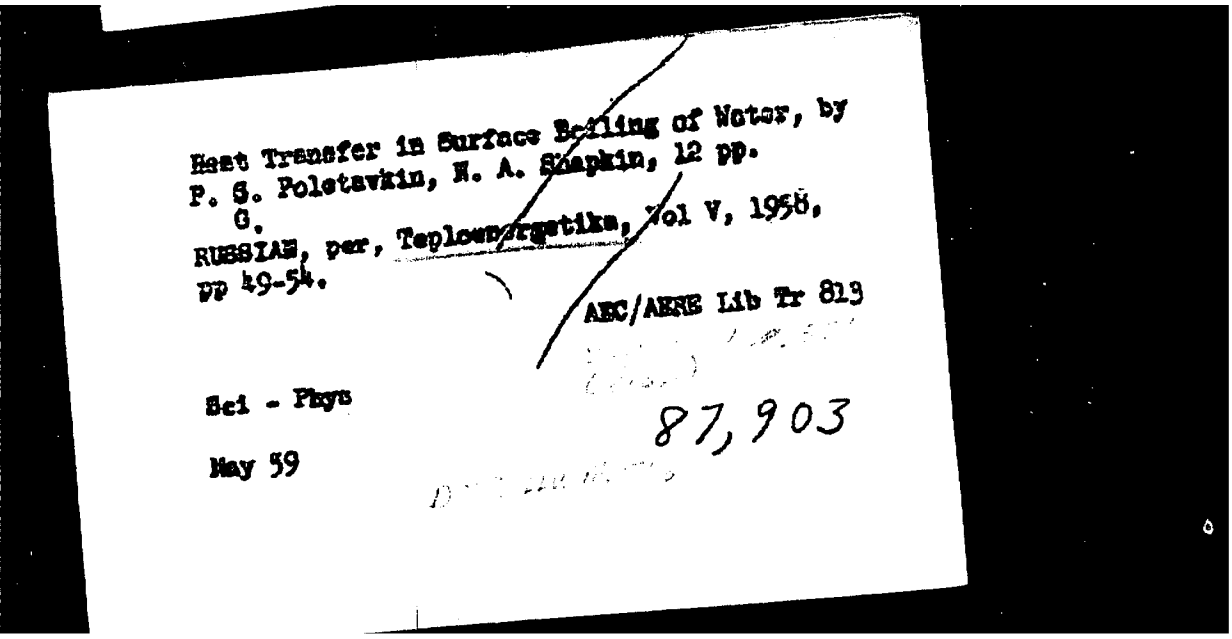
DSIR LLU RTS 1082

7s. 6d.

54, 831.

Soi - Engr
Aug 59

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9



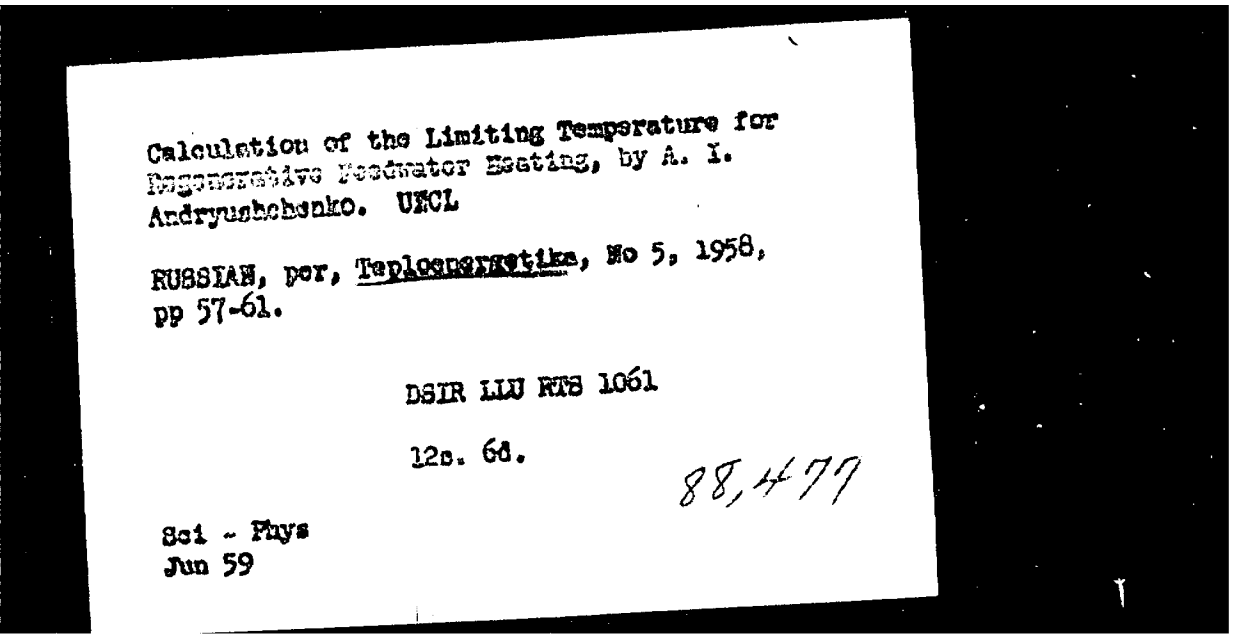
Heat Transfer in Surface Boiling of Water, by
P. S. Poletavkin, N. A. Shapkin, 12 pp.
G.
RUSSIAN, per, Teploenergetika, Vol V, 1958,
pp 49-54.

AEC/AERE Lib Tr 813

Sci - Phys

87,903

May 59



Calculation of the Limiting Temperature for Regenerative Feedwater Heating, by A. I. Andryushchenko. UNCL

RUSSIAN, per, Teploenergetika, No 5, 1958, pp 57-61.

DSIR LIU RTS 1061

12s. 6d.

88,477

Sci - Phys
Jun 59

Long-Term Strength of Cylindrical Bodies Weakened by Apertures, by A. A. Zakharov, Cand. Tech. Sci.

RUSSIAN, per, Teploenergetika, No 6, 1958, pp 52-55.

M. Tollemache —53
The Old Rectory
Lewknor, Oxon.

84,024

Sci - Phys; Engr
Apr 59

Investigation of Separation of Solid Particles in Suspension on to a Film of Liquid from a Stream Moving in a Vortex, by V. E. Maslov, et al.

RUSSIAN, per, Teploenergetika, No 6, 1958, pp 63-71.

Co-op Trans Sch 629

Sci - Physics
Mar 59

82,478

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9

The Hydraulic Frictional Resistances to the Flow of a Mixture of Steam and Water in a Straight Horizontal Tube, by a. I. Kosterin, B. I. Sheynin. UNCL

RUSSIAN
[redacted], per, Teploenergetika, No 6, 1958, pp 71-76.

NLL M.4384
DSIR LLU RTS 1062

15s. 0d. 94,825

Sci - Phys
Aug 59

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9

Kirillin, V. A.
ON INTERNATIONAL COLLABORATION IN THE FIELD OF RESEARCH ON THE THERMODYNAMIC PROPERTIES OF STEAM (O Mezhdunarodnom Sotrudnichestve v Oblasti Issledovanii Termodinamicheskikh Svoistv Vodyanogo Para). May 62 [10]p. RTS 2057. Order from OTS or SLA $1.10 62-25461

Trans. of Teploenergetika (USSR) 1958 [v. 5] no. 7, p. 3-6.

DESCRIPTORS: *Conferences, *Steam, *Thermodynamics, Scientific research.

(Physics--Thermodynamics, TT, v. 9, no. 3)

62-25461

I. Kirillin, V. A.
II. RTS-2057
III. Department of Scientific and Industrial Research (Gt. Brit.)

Office of Technical Services

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9

Investigation of the Thermal Capacity of Steam c_p Up to 700 atm. and 700°C, by M. P. Vukalovich, et al.

RUSSIAN, per, Teploenergetika, No 7, 1958, pp 7-9.

DSIR LLU RTS 1538

Sci - Engr

Oct 60

1301721

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9

Thermal Capacity and Enthalpy of Steam at Super-critical Pressures, by A. M. Sirota.

RUSSIAN, per, Teploenergetika, No 7, 1958, pp 10-13.

DSIR LLU RTS 1539

Sci - Engr

Oct 60

130,723

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9

Specific Heat C_p of Steam on the Saturation Line, by A. E. Sheindlin, et al.

RUSSIAN, per, Teploenergetika, No 7, 1958, pp 13-17.

DSIR LLU RTS 1540

Sci - Chem, Engr

128,859

Oct 60

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9

Contribution to the Problem of Thermal (Calorific) Quantities of Steam in the Ideal Gaseous State, by V. S. Siletskiy.

RUSSIAN, per, Teploenergetika, No 7, 1958, pp 18-21.

DSIR LLU RTS 1541

Sci - Engr

Oct 60

128,727

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9

An Equation of ~~xx~~ State for Steam, by Ya. Z. Kazavchinskiy, O. I. Katkhe.

RUSSIAN, per, Teploenergetika, No 7, 1958, pp 26-30.

NLL RTS 2058

Sci - Engr

Aug 62

207,200

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9

Experimental Investigation of the Thermodynamic Properties of Freon - 142, by L. I. Cherneyeva.

RUSSIAN, per, Teploenergetika, No 7, 1958, pp 38-43.

NLL RTS 2033

Sci - Engr

Aug 62

207, 201

Direct-Flow Boiler With Washing and Separating System, by I. I. Koshelev. UNCL.

RUSSIAN, per, Teploenergetika, No 7, 1958, pp 55-63.

DSIR LLU RTS 1054

Ll. 2s. 6d.

95, 890

Sci - Engr
Sep 59

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9

A Steam Jet Method for Measuring Clearances in Steam Turbines, by Ya. M. Rubinshtein, M. A. Trubilov.

RUSSIAN, per, Teploenergetika, No 7, 1958, pp 68-74.

Sci - Engr

Oct 60

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9

IMPROVING THE WATER-TIGHTNESS OF STEAM TURBINE CONDENSERS FOR INSTALLATIONS WITH SUPER-HIGH AND SUPERCRITICAL STEAM PARAMETERS, BY L. D. BERMAN, S. N. FUKS.

RUSSIAN, PER, TEPLOENERGETIKA, NO 8, 1958, PP 25-31.

NLL M. 3864

SCI - ENGR

NOV 62

217,683

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9

Temperature Variations in High Pressure Boiler Drums and Their Treatment, by I. A. Meshchaninov, C. P. Mashnik, 8 pp.

RUSSIAN, per, Teploenergetika, No V, No 8, 1958, pp 4h-48.

SIA 59-22856

Sci
Jan 62
Vol III, No 10

181, 258

Emissivity of Boiler Furnace Slags, by S. G. Agababov. UNCL

RUSSIAN, per, Teploenergetika, No 8, 1958, pp 56-60.

DSIR LIAL RES 1052

Sci - Engr
Jul 59

90,690

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9

An Experimental Study of the Viscosity of Methane, by N. V. Pavlovich, D. L. Timrot.

RUSSIAN, per, Teploenergetika, No 8, 1958, pp 61-65.

NLL RTS 2034

Sci - Engr

20/202

Aug 62

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9

Mass Exchange in Horizontal Tube Condenser With Steam Containing Air, by L. D. Berman, S. N. Fuks.

RUSSIAN, per, Teploenergetika, Vol V, No 8, 1958, pp 66-74.

DSIR LLU M.901
(loan)

Sci - Engr

Oct 60

Experimental Investigation of the Critical Thermal Load When Binary Mixtures are Boiled, by V. J. Fastovskiy, R. I. Artym.

RUSSIAN, per, Teploenergetika, Vol V, 1958, pp 74-76.

Sci - Phys

Jan 62

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9

An Investigation of Velocity Thermo-Couple as a Correcting Link in a System for the Automatic Controll of Steam Superheat Temperature, by Yu. I. Sitintskiy. USCL

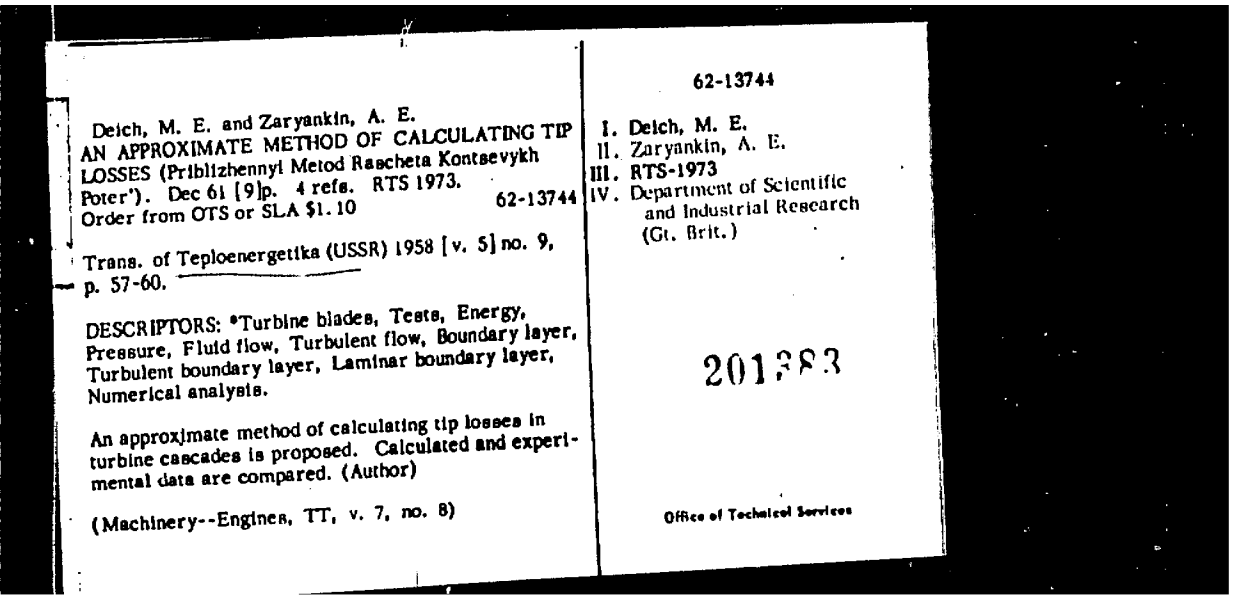
RUSSIAN, per, Teploenergetika, No 9, 1958, pp 30-33.

DSIR LIU RTS 1048

90,691

Sci - Electricity
Jul 59

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9



Deich, M. E. and Zaryankin, A. E.
AN APPROXIMATE METHOD OF CALCULATING TIP LOSSES (Priblizhennyi Metod Rascheta Kontsevykh Poter'). Dec 61 [9]p. 4 refs. RTS 1973. 62-13744
Order from OTS or SLA $1.10

Trans. of Teploenergetika (USSR) 1958 [v. 5] no. 9, p. 57-60.

DESCRIPTORS: *Turbine blades, Tests, Energy, Pressure, Fluid flow, Turbulent flow, Boundary layer, Turbulent boundary layer, Laminar boundary layer, Numerical analysis.

An approximate method of calculating tip losses in turbine cascades is proposed. Calculated and experimental data are compared. (Author)

(Machinery--Engines, TT, v. 7, no. 8)

62-13744

I. Deich, M. E.
II. Zaryankin, A. E.
III. RTS-1973
IV. Department of Scientific and Industrial Research (Gt. Brit.)

201383

Office of Technical Services

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9

Chemical and Phase Composition of Slag in TP-240 Boiler Operating Under 185 Atm. Pressure, by Yu. V. Zenkevich, N. Ya. Karasik.

RUSSIAN, per, Teploenergetika, Vol V, No 9, 1958, pp 68-70.

NLL Ref: 9022.09 1963 (3093) (Loan)

Sci
Feb 64

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9

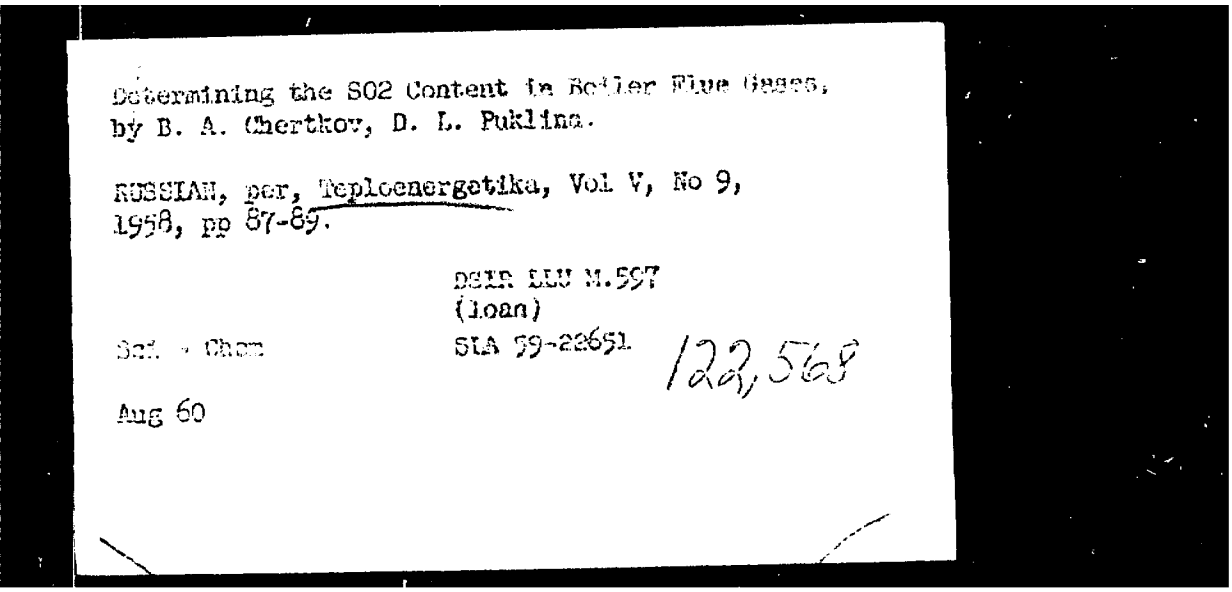
Heat Transfer From the Wall to a Turbulent Flow of Air Inside a Tube With Large Temperature Differences and a Method for Calculating Wall Temperature, by D. V. Dyadyakin, V. L. Lel'chuk. UNCL

RUSSIAN, per. Teploenergetica, No 9, 1958, pp 74-79.

BISI 1714

(14. 5s.0d.) 118,745

Sci - Phys
Jun 60



Determining the SO2 Content in Boiler Flue Gases,
by B. A. Chertkov, D. L. Puklina.

RUSSIAN, per, Teploenergetika, Vol V, No 9,
1958, pp 87-89.

DSIR LLU M.597
(Loan)
SIA 59-22651

Sci - Chem

Aug 60

122,568

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9

Chernyshev, N. A.
EFFECT OF ROTATION ON THE OPERATION OF VALVES IN CONTROL SYSTEMS (O Vliyanii Vrashcheniya na Rabotu Zolotnikov Sistem Regulirovaniya). [1961] [10]p. (Foreign text included) 9 refs. [DSIR LLU M 2596]
Order from OTS or SLA $1.60 61-23281

Trans. of Teploenergetika (USSR) 1958 [v. 5] no. 10, p. 30-34.

DESCRIPTORS: *Rotary valves, *Control systems, *Steam turbines, Performance.

The paper puts forward the principles of the operation of rotating valves, and reviews the effect of rotation on the regulating properties of valves, and the leakage of oil through the clearance between the sleeve and the valve. (Author)

(Engineering--Mechanical, TT, v. 6, no. 3)

61-23281

I. Chernyshev, N. A.
II. DSIR LLU M 2596

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9

The Optimum Conditions for Regenerating H-Cationite Fitters With Different Cationites, by F. G. Prokhorov, T. A. Kurskaya.

RUSSIAN, per, Teploenergetika, No 10, 1958, pp 35-42.

DSIR LLU RTS 1542

Sci - Engr

Oct 60

128,729

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9

An Experiment on the Preparation of a Magnesite Sorbent and the Removal of Silicate From Water for Feeding High Pressure Boilers, by A. P. Mamet, A. V. Nikolayev.

RUSSIAN, per, Teploenergetika, No 10, 1958, pp 42-46.

DSIR LLU RTS 1543

Sci - Chem, Engr

128,861

Oct 60

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9

Removal of Silicates From Water by Magnesite Sorbent Developed by VODGEO Institute, by V. M. Kvyatkovskiy, A. I. Baulina.

RUSSIAN, per, Teploenergetika, No 10, 1958, pp 46-51.

DSIR LLU RTS 1544

Sci - Chem, Engr

128,855

Oct 60

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9

Influence of the Dwell Time of Water in an Accumulator Tank on the Efficiency of Oxygen Separation, by I. K. Grishuk, et al.

RUSSIAN, per, Teploenergetika, No 10, 1958, pp 51-53.

DSIR LLU RTS 1545

Sci - Chem, Engr

128,856

Oct 60

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9

Prevention of Oxygen and Carbon Dioxide Corrosion of Power Equipment by Means of Octadecylamine, by P. A. Akol'zin, et al.

RUSSIAN, per, Teploenergetika, Vol V, No 10, 1958, pp 54-55.

Sci - Chem

Dec 61

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9

An Experimental Study of the Thermal Conductivity of Helium, 7 pp.

RUSSIAN, per, Teploenergetika, Vol V, No 10, 1958, pp 61-65.

AEC NP-tr-477

Sci - Chem
9 Mar 61

Calculations for Combined Pulverized Fuel Burners With Central and Peripheral Gas Feed, by Yu. V. Ivanov. UNCL

RUSSIAN, per, Teploenergetika, No 11, 1958, pp 9-13.

DSIR LLU RTS 1049

12s. 6d.

95, 891

Sci - Math; Engr
Sep 59

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9

The Use of Natural Gas as a Fuel, by K. F. Roddatis.

RUSSIAN, per: Teploenergetika, Vol V, No 11, 1958, pp 3-9.

Sci - Fuels

Aug 60

122,544

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9

Approximate Method for Calculating the Burnout of a Pulverized Coal Flame, by V. V. Pomerantsev.

RUSSIAN, per, Teploenergetika, No 11, 1958, pp 38-41.

NLL Ref: 9022.09 1964 (3431)
(loan copy)

Sci
Sep 64

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9

Critical Heat Flux in Uniform and Non-Uniform Heating of the Circumference of Steam Generating Tubes, by Z. L. Miropol'skiy, I. L. Mostinskiy. UNCL

RUSSIAN, per, Teploenergetika, No 11, 1958, pp 64-69.

DDIR LLU RES 1051

15s. Od.

94, 826

Sci - Phys
Aug 59

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9

Heat Transfer of Banks of Pipes in a Transverse Stream of a Free Flowing Solid (Sand)., by S. V. Donskov.
RUSSIAN, per. Teploenergetika, No 11, 1958, pp 76-80.
NLL RTS 3546

Sci-Physics
Nov 67

345. 343

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9

13 524 GF-1 At-1

MARGULOVA T. Kh.

Rational organization of water circulation in single-circuit atomic energy plants with boiling water reactors

Die Wasserwirtschaft in einem Kraftwerk mit Siedewasser-Reaktoren

Teploenergetika, 5, No. 12, 22-26 (1958)
Archiv für Energiewirtschaft, 351-360 (1959) - German

GF-1: German
At-1: Ph, 1960/61, No. 69 - German (See ref. 3033-"TB", 1, 5)
Abs.: NSA, 13, No. 24A, ref. 23089 (1959) - English

E u r a t o m

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9

An Investigation of the Operation of Turbine Blades at High Velocities, by M. E. Deich, A. V. Gubarev.

RUSSIAN, per, Teploenergetika, No 12, 1958, pp 56-62.

MLL RTS 2001

Sci - Engr

Jul 62

204,844

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9

The Thermal Conductivity of Slags in the Solid and Molten States, by N. B. Vargaftik, O. N. Oleshchuk. UHCL

RUSSIAN, per, Teploenergetika, No 12, 1958, pp 79-85.

DSIR LLU RTS 1063

15s. Cd.

95, 839

Sci - Phys; Min/Met
Sep 59

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9

Generalizations of the Experimental Data for the Circulation of Water in Boilers, by G. E. Kolodovskiy, 35 pp.

RUSSIAN, per, Teploenergetika, No 1, 1959, pp 3-29. 9079921

AEC Tr-4659

Sci
Aug 61

164, 8 88

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9

High-Power Boiler Installations of the Podol'skiy Machine-Construction Works, by O. N. Dobrynin, G. Ya. Mazharaup. UNCL

RUSSIAN, per, Teploenergetika, No 1, 1959, pp 28-37.

DSIR LLU RTS 1290

(25a. Od.) 102,509

Sci - Engr
Dec 59

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9

Study of Rupture Strength of Steam Pipe Welds During Austenitization, by R. Ye. Mazel, 3 pp.

RUSSIAN, per, Teploenergetika, Vol VI, No 1, 1959, p 49.

SLA 60-13568

Sci

Apr 61

OTS, Vol III, No 12

163,246

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9

Aerodynamics of Fluidised Beds, by V. M. Dement'yev.

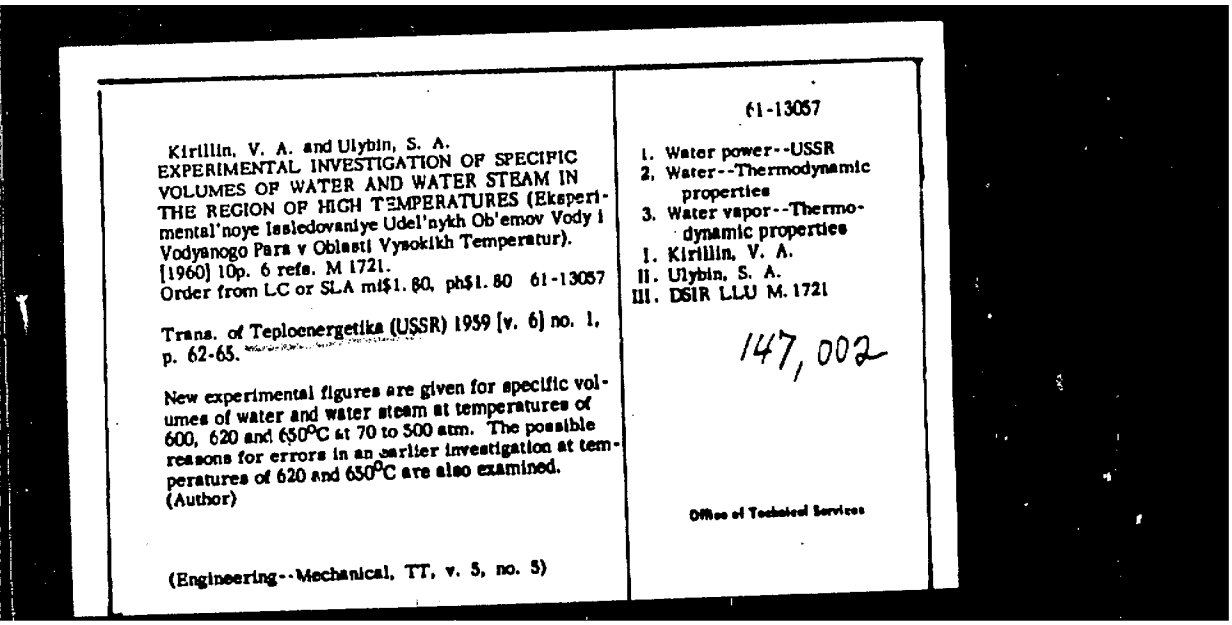
RUSSIAN, per, Teploenergetika, No 1, 1959,
pp 50-56. 9076306

DSIR LLU RTS 1524

Sci - Engr

Oct 60 128,728

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9



Kirillin, V. A. and Ulybin, S. A.
EXPERIMENTAL INVESTIGATION OF SPECIFIC VOLUMES OF WATER AND WATER STEAM IN THE REGION OF HIGH TEMPERATURES (Eksperimental'noye Issledovaniye Udel'nykh Ob'emov Vody i Vodyanogo Para v Oblasti Vysokikh Temperatur).
[1960] 10p. 6 refs. M 1721.
Order from LC or SLA mf$1.80, ph$1.80 61-13057

Trans. of Teploenergetika (USSR) 1959 [v. 6] no. 1, p. 62-65.

New experimental figures are given for specific volumes of water and water steam at temperatures of 600, 620 and 650°C at 70 to 500 atm. The possible reasons for errors in an earlier investigation at temperatures of 620 and 650°C are also examined. (Author)

(Engineering--Mechanical, TT, v. 5, no. 5)

61-13057

1. Water power--USSR
2. Water--Thermodynamic properties
3. Water vapor--Thermodynamic properties
I. Kirillin, V. A.
II. Ulybin, S. A.
III. DSIR LLU M. 1721

147,002

Office of Technical Services

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9

Heat Transfer to Water, Oxygen and Carbon Dioxide in the Approximate Critical Range, by M. E. Shitsman.

RUSSIAN, per, Teploenergetika, No 1, 1959, pp 68-72.

*UKAEA-Windscale-Tr-57

On loan only

Sci - Nucl Sci

Jul 63

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9

Heat Transfer During the Viscous-Gravitational Flow of a Liquid Through Pipes, by B. S. Petukhov and L. D. Nol'de.
RUSSIAN, per, Teploenergetika, 1959, No 1, Vol 6, pp 72-80.
MLL RTS 2640 (On Loan or Purchase)
OFSTI # 64-23532 On Loan

Aug 65 286,984

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9

The Effect of Inlet Conditions on the Critical Heat Flux for the Case of Boiling Water in Tubes, by Z. L. Miropol'skiy, et al.

RUSSIAN, per, Teploenergetika, No 1, 1959, pp 80-83.

DSIR LLU RTS 1525

Sci - Engr

128,730

Oct 60

An Investigation of the Critical Rate of Stripping a Film of Moisture From the Wall of a Steam Pipeline, by M. A. Morozev,

RUSSIAN, per, Teploenergetika, Vol VI, No 2, 1959,

DSIR LLU-M-1885 or
DSIR LLU RMS-1581

Sci - Engr
May 62
List 63

194,145

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9

(NY-2900/2).

Electrical and Power Equipment
~~Steam Turbines of the Kuibyshev Turbine Plant~~,
by L. A. Shubenko-Shubin, 21 pp.

RUSSIAN, per, Teploenergetika, No 2, 1959, pp 3-15.

JPRS-1798-N

USSR
Econ
Jul 59

93,102

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9

Method of Designing the Flow Section of Steam and Gas Turbines, by A. M. Zavadovsky, Kh. L. Babenko.

RUSSIAN, per, Teploenergetika, Vol VI, No 2, 1959, pp 23-28.

Sci - Engr

Oct 60

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9

Polyatskin, M. A. and Svyatskiy, Z. M.
HIGHLY-FORCED COMBUSTION CHAMBER FOR HEAVY AND MEDIUM LIQUID FUELS IN A GAS TURBINE INSTALLATION (Vysokoforsirovannaya Kamera Sgoraniya GTU dlya Srednikh i Tyazhelykh Zhidkikh Topliv). 24 Feb 60 [16]p. Trafford Park trans. 2601; M 1629.
Order from LC or SLA mi$2.40, ph$3.30 60-19939

Trans. of Teploenergetika (USSR) 1959 [v. 6] no. 2, p. 33-39.

In the combustion chamber with a conical register and a telescopic flame tube it is possible to burn different types of solar oils, diesel fuels and mazut of type F-12 when it is heated to 100°C. The fuel combustion process was completed in the first section of the combustion chamber (l/d = 0.8). The heat release values for all the fuels burnt were 5×10^6 to 18×10^6 kcal/$m^3 \cdot h \cdot atm$ and the specific heat release values
(Machinery--Engines, TT, v. 5, no. 5) (over)

60-19939

1. Gas turbines--Design
2. Combustion chambers--Design
I. Polyatskin, M. A.
II. Svyatskiy, Z. M.
III. AEI TP/T-2601
IV. DSIR LLU M.1629
V. Associated Electrical Industries, Ltd. (Gt. Brit.)

147,057

Office of Technical Services

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9

An Investigation Into the Critical Velocity of Steam At Which the Moisture Film Breaks Away From Steam-Pipe Walls, by N. A. Mozharov.

RUSSIAN, per, Teploenergetika, Vol VI, No 2, 1959, pp 50-53.

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9

Behaviour of Hydroxide and Calcium Chloride in the Circuit of a Once-Through Boiler, by
Yu. F. Samoilov, O. K. Smirnov.

RUSSIAN, per, Teploenergetika, Vol VI, No 2, 1959, pp 53-57.

NLL Ref: 9022.09 1963 (3092) (Loan)

Sci
Feb 64

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9

The Formation of Iron Oxide Scale in Multiple-Circulation Boilers, by M. N. Man'kina. UKCL

RUSSIAN, per, Teploenergetika, No 2, 1959, pp 79-83.

DSIR LLU RTS 1343

(12s. 6d.)

111,075

Boi - Engr

Mar 60

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9

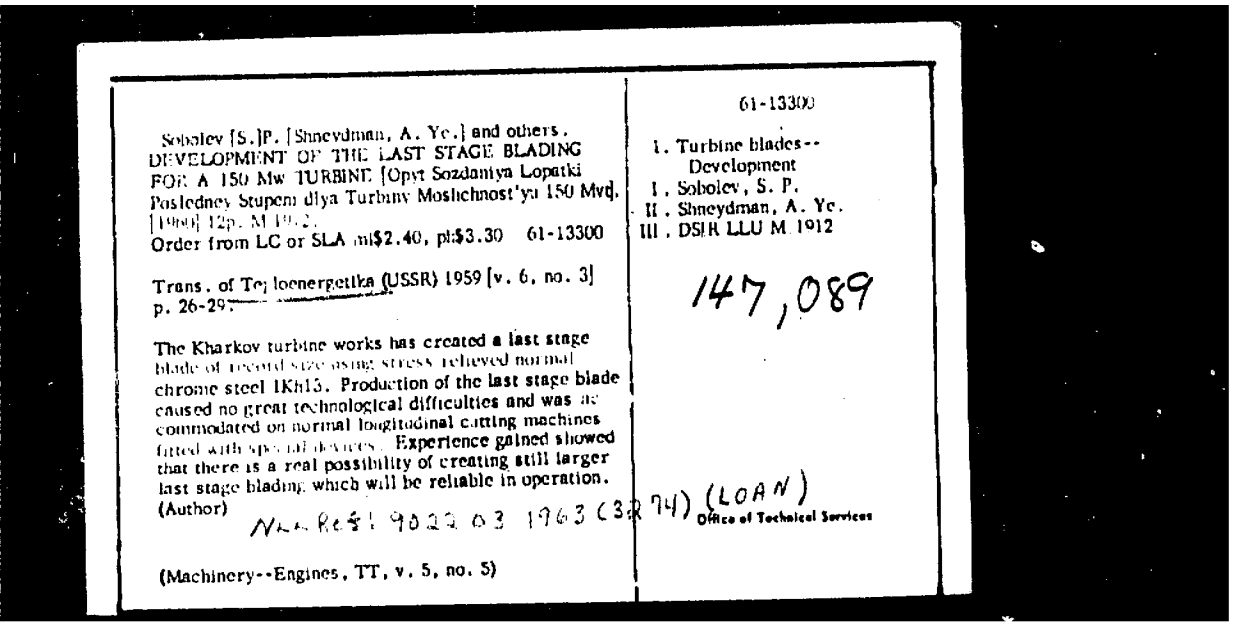
Effect of the Length or a Heated Pipe Section on the Magnitude of the Critical Thermal Flux During the Forced Flow of a Steam-Water Mixture, by M. A. Styrikovich, L. Ye. Faktorovich, 9 pp.

RUSSIAN, per, Teploenergetika, Vol VI, No 2, 1959, pp 83-88.

AEC-74L35R 119,158

Sci
Jun 60
Vol III, No 5

RJ-3310



Sobolev [S.]P. [Shneydman, A. Ye.] and others. DEVELOPMENT OF THE LAST STAGE BLADING FOR A 150 Mw TURBINE [Opyt Sozdaniya Lopatki Posledney Stupeni dlya Turbiny Moshchnost'yu 150 Mvt]. [1960] 12p. M 1912.
Order from LC or SLA mi$2.40, pl$3.30 61-13300

Trans. of Teploenergetika (USSR) 1959 [v. 6, no. 3] p. 26-29.

The Kharkov turbine works has created a last stage blade of record size using stress relieved normal chrome steel 1Kh13. Production of the last stage blade caused no great technological difficulties and was accommodated on normal longitudinal cutting machines fitted with special devices. Experience gained showed that there is a real possibility of creating still larger last stage blading which will be reliable in operation. (Author)

NLA Ref: 9022 03 1963 (3R 74) (LOAN)

(Machinery--Engines, TT, v. 5, no. 5)

61-13300

1. Turbine blades--Development
I. Sobolev, S. P.
II. Shneydman, A. Ye.
III. DSIR LLU M 1912

147,089

Office of Technical Services

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9

Thermo-Physical Properties of Molten Metals,
by N. A. Nikolsky, et al.

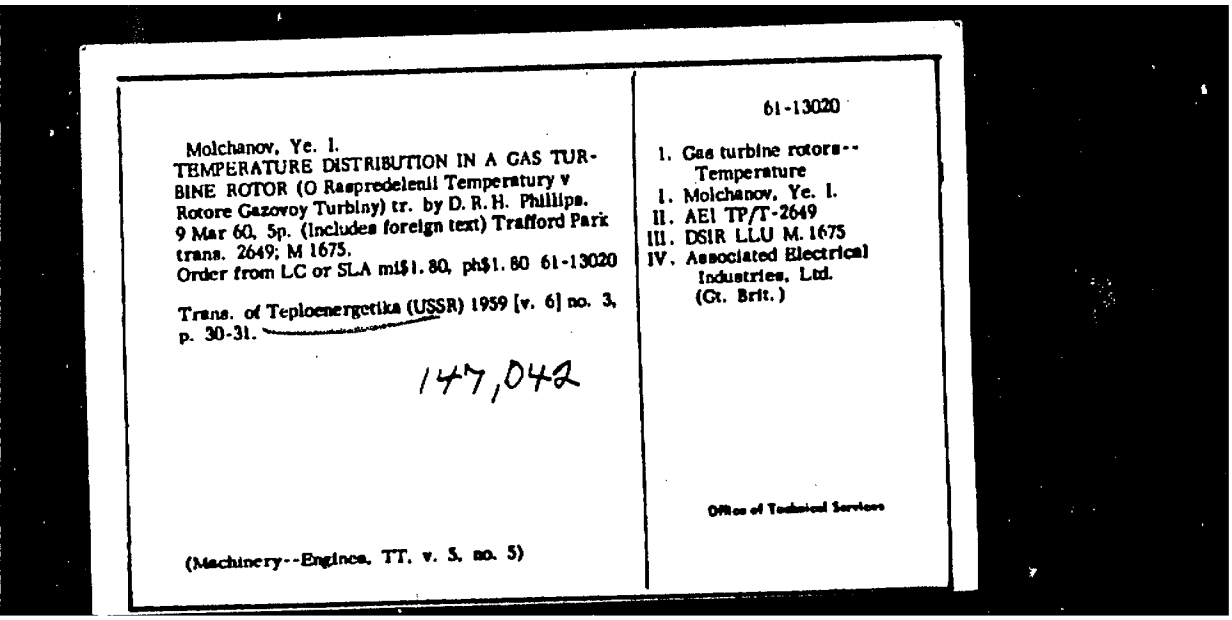
RUSSIAN, per, Teploenergetika, No 2,
1959, PP 92-95.

CSIRO

191,320

Sci - Nim/Met
Apr 62

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9



Molchanov, Ye. I.
TEMPERATURE DISTRIBUTION IN A GAS TURBINE ROTOR (O Raspredelenii Temperatury v Rotore Gazovoy Turbiny) tr. by D. R. H. Phillips. 9 Mar 60. 5p. (Includes foreign text) Trafford Park trans. 2649; M 1675.
Order from LC or SLA mi$1.80, ph$1.80 61-13020

Trans. of Teploenergetika (USSR) 1959 [v. 6] no. 3, p. 30-31.

147,042

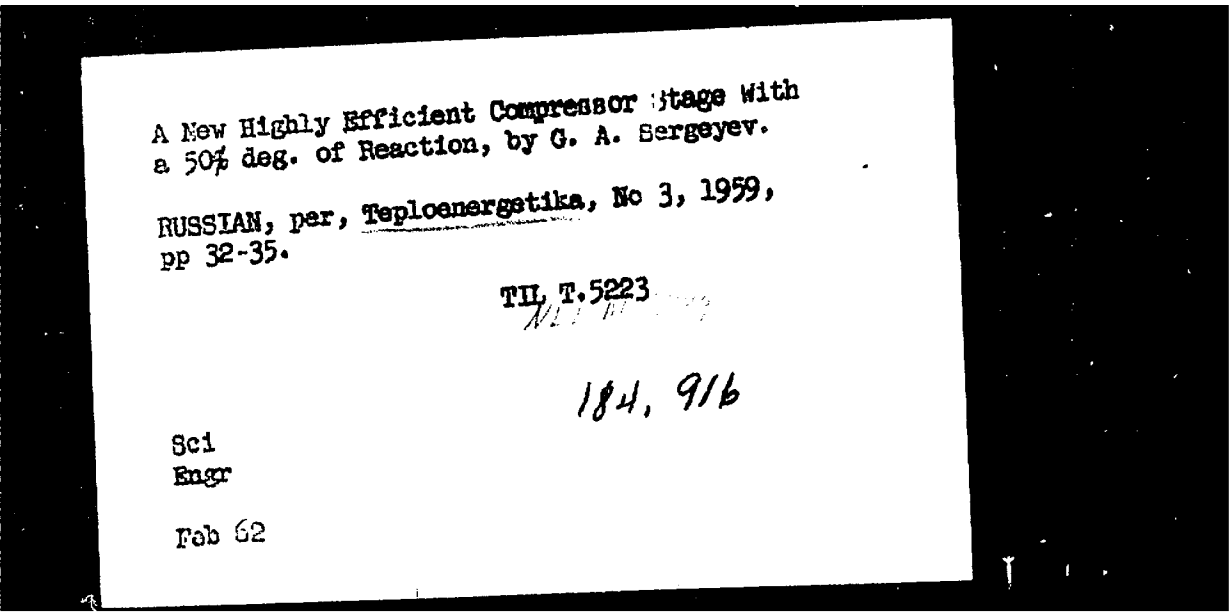
(Machinery--Engines, TT, v. 5, no. 5)

61-13020

1. Gas turbine rotors--Temperature
I. Molchanov, Ye. I.
II. AEI TP/T-2649
III. DSIR LLU M. 1675
IV. Associated Electrical Industries, Ltd. (Gt. Brit.)

Office of Technical Services

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9



A New Highly Efficient Compressor Stage With a 50% deg. of Reaction, by G. A. Sergeyev.

RUSSIAN, per, Teploenergetika, No 3, 1959, pp 32-35.

TIL, T.5223

184, 916

Sci
Engr

Feb 62

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9

Test of a Vertical Cyclone-Type Combustion Chamber With Provision for Liquid Slag Removal and Air Cooling, by L. A. Bogdanov. UNCL.

RUSSIAN, per, Teploenergetika, No 3, 1959, pp 40-44.

DSIR LLU RTS 1118

12s. 6d. anywhere

99,457

Sci - Engr
Oct 59

Some Characteristics of Movable Slot Burners for Pulverized Coal, by A. L. Bychkovskiy. USCL.

RUSSIAN, per, Teploenergetika, No 3, 1959, pp 45-49.

DSIR LLU RTS 1119

12a. 9 68. anywhere

99,462

Sci - Engr
Oct 59

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9

Effect of Pressure Pulsations in a Gas Flow on Convective Heat Exchange,
by S. I. Kosterin, I. A. Kozhinov, et al,
13 pp.
RUSSIAN, per, Teploenergetika, No 5,
1959, pp 66-72. 9697185
FTD-TT-64-1065

Sci-Engr
Jun 65

282,235

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9

R-900 (DC-2933).

Development of TETS in Large Power Systems Having Condensing Power Plants of High and Super-High Steam Parameters, by S. F. Kop'yev, 6 pp.

RUSSIAN, per, Teploenergetika, No 4, 1959, Moscow, pp 3-10.

JPRS-L-1805-D

USSR
Econ
Sci - Engr
Aug 59

93, 352

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9

R-900 (DC-2933).

Designing Basic Equipment for Electric Power Stations Operated at Initial Steam Parameters of 240 at and 580° Centigrade, by N. L. Cyvin, 7 pp.

RUSSIAN, per, Teploenergetika, No 4, Moscow, 1959, pp 20-27.

JPRS-L-1805-D

93,353

USSR
Econ
Sci - Engr

Aug 59

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9

R-900 (DC-2933).

The Problem of Operating More Economically the Existing Industrial Power Stations, by A. F. Afanas'yev, Yu. L. Kertselli, 5 pp.

RUSSIAN, per, Teploenergetika, No 4. 1959, pp 27-31.

JPRS-L-1805-D

USSR
Econ
Sci - Engr
Aug 59

93,354

The EPK Wetness Meter, by I. I. Koshelev and V. O. Kovi.
RUSSIAN, per, Teploenergetika,
1959, No 4, pp 49-55.
NLL RTS 2364 (On Loanr or Purchase)
CFSTI # 64-19927

Aug 65 286,983

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9

Determination Experimentale des Volumes Specifiques de l'eau Lourde, by V. A. Kirillin, S. A. Ulybin.

RUSSIAN, to FRENCH, per, Teploenergetika, Vol IV, 1959, pp 67-72. 9087652

Reverse Translation
R-1578
9

Jul 62

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9

Investigation of the Local Boiling of Subcooled Water During Its Flow at High Velocities Through Tubes, by P. I. Pavarnin, S. T. Semenov.

RUSSIAN, per, Teploenergetika, No 4, 1959, pp 72-79.

DSIR LLU RTS 1526

Sci - Engr

Sep 60

125,556

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9

Construction of Thermal Electric Power Stations in 1959-1965, by I. T. Novikov,

RUSSIAN, per, Teploenergetika, No 5, 1959, pp 3-7.

Trans, Comm, & Elec Power in the USSR, (17)

USSR

Econ

Jun 59

88,443

R-2591 (NY-3201).

Some Fundamental Problems of Development of Thermo-Electric Power Plants, by P. Ya. Tyurin, 26 pp.

RUSSIAN, per, Teploenergetika, No 5, 1959, pp 8-16.

JPRS-2226

108,547

USSR
Econ - Electric Power
Feb 60

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9

Aerodynamic Resistance of Compact Checkered Nests, by V. I. Tolubinsky and V. M. Legki,
RUSSIAN, per, Teploenergetika, 1962,
No 5, pp 15-17.
NLL RTS 2404 (On Loan or Purchase)

Aug 65 286,985

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9

12 291 GE-1

ARSEN'EV Yu. D., AVERIN E. K.

Approximate determination of the optimum cycle in atomic power plants featuring two closed cycles

Angenäherte Bestimmung des optimalen Zyklus von Atomkraftwerken mit zwei Kreisläufen

Teploenergetika, No. 5, 29-33 (1959) - German

Euratom

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9

The Problem of the Determination of the Resistance of a Burning Fuel Bed, by G. B. Froishteter.

RUSSIAN

[redacted], per, Teploenergetika, No 5, 1959, pp 50-55.

Dept of Interior
TR No 1706

Sci

NLL M 3900

Jan 63

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9

Selection of the Overlap in Turbine Stages,
by A. M. Zavadovskii.
RUSSIAN, per, Teploenergetika, Vol 6, No 6,
1959, pp 17-21.
NLL 9022.03 (3922)

Sci-Mech Engr
Jul 68

361,624

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9

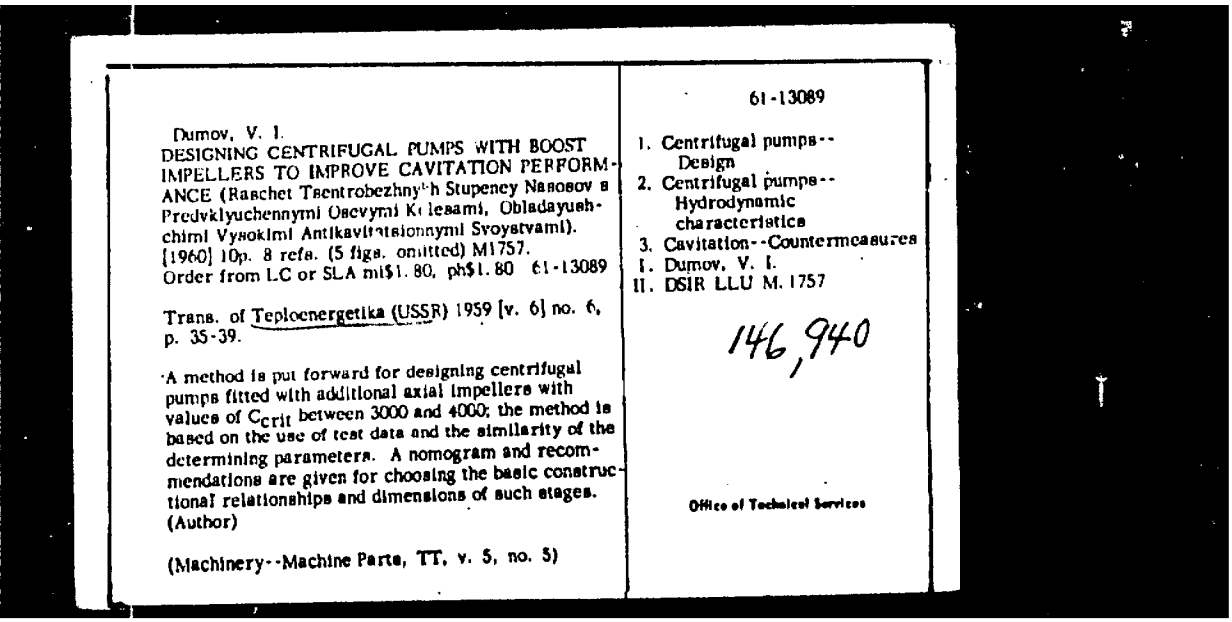
Heat Exchange at Bubble Boiling of Liquid, by
D. A. Labountzon.

GERMAN, per, Teploenergetika, 1959, pp 19-26.

*AEC-UKAEA/Risley

Sci -
Apr 60

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9



Dumov, V. I.
DESIGNING CENTRIFUGAL PUMPS WITH BOOST IMPELLERS TO IMPROVE CAVITATION PERFORMANCE (Raschet Tsentrobezhnykh Stupeney Nasosov s Predvklyuchennymi Osevymi Kolesami, Obladayushchimi Vysokimi Antikavitatsionnymi Svoystvami). [1960] 10p. 8 refs. (5 figs. omitted) M1757. Order from LC or SLA mi$1.80, ph$1.80 61-13089

Trans. of Teploenergetika (USSR) 1959 [v. 6] no. 6, p. 35-39.

A method is put forward for designing centrifugal pumps fitted with additional axial impellers with values of C_{crit} between 3000 and 4000; the method is based on the use of test data and the similarity of the determining parameters. A nomogram and recommendations are given for choosing the basic constructional relationships and dimensions of such stages. (Author)

(Machinery--Machine Parts, TT, v. 5, no. 5)

61-13089

1. Centrifugal pumps--Design
2. Centrifugal pumps--Hydrodynamic characteristics
3. Cavitation--Countermeasures
I. Dumov, V. I.
II. DSIR LLU M. 1757

146,940

Office of Technical Services

Heat Transfer and Resistance to Flow in Tubes for Heating Air to High Temperatures, by A. V. Arseyev.

RUSSIAN, per, Teploenergetika, No 6, 1959, pp 67-72.

[redacted]
available from
Infosearch Ltd
London as TA-59/6.67
per NC List 50

Sci - Phys

Oct 59

Automatic Control of Once-Through Boilers,
by N. I. Davydov, E. P. Fel'dman.
RUSSIAN, per, Teploenergetika, Vol VI, No 7, 1959,
pp 5-12.
AEC-Risley Tr 772 on loan

Sci-
Mar 65

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270003-9