

DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH

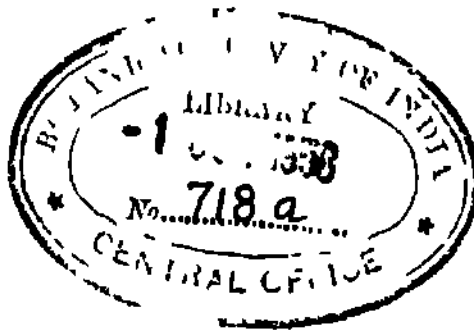
**TRANSLATED CONTENTS LISTS
OF RUSSIAN PERIODICALS**

with

List of Recent Accessions of Russian Scientific and
Technical Books and Parts of Serial Publications
available in the British Museum

No. 104

NOVEMBER, (957



LONDON: HER MAJESTY'S STATIONERY OFFICE
1957.

Annual Subscription £4 0s 0d Including postage

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is prepared and issued monthly by the Department of Scientific and Industrial Research with the assistance of many organisations and individuals who contribute to its contents.

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The Department of Scientific and Industrial Research cannot accept responsibility for the accuracy of the translation of contents lists included in this issue.

NOVEMBER, 1957

Suppliment to
TRANSLATED CONTENTS LISTS OF RUSSIAN PERIODICALS

D.S.L.R. CO-OPERATIVE RUSSIAN TRANSLATIONS

This Supplement to the 'Translated Contents List of Russian Periodicals' gives information on English translations that:

may be commissioned by the D.S.L.R. if further parties request (see Section (A));

have Just been commissioned by the D. S. I. R. (see Section B);

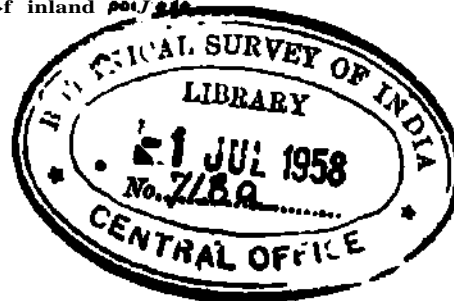
have just become available from the D. S. I. SL (see Section C)

Conditions of the Co-operative Scheme under which the D. S. I. R. can arrange (or translations are set out in [iii] in Section D.

All enquiries should be addressed to:-

Department of Scientific and Industrial Research, (C. T. S.).
"Charles House, 5 U Regent Street,
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§

SECTION A: Single requests to the following have been received. Any one of these will be undertaken, at a cost not exceeding 8s. Od. per page of the original, immediately on receipt of a second request

T.C.L. No. 96

Study of the diffusion of boron and oxygen in certain metal* of the transitional group.

(G.V. SAMBINOV et al.).

Pitika Mettallov i Metallovedenie Akadeiia Nauk SSSR^ 1956 2(2) 309-319

T.C.L. No. fii

A contribution to the study of dispersed organic matter and of areas of lower Carboniferous deposits of the P...jan Platform*

(K.F. BODINOVA et al.).

Doklady Akademii Nauk SSSR, 1957 112,(2) 26-290

New views on the mechanism of photo conductivity and phosphorescence.

(I.A. TOLSTOI).

Radiotekhnika i Elektronika, 1956^ (8) 1135-1143

T.C.L. No. 100

Estimating constant quality 1A metallurgical steel as regards mechanical strength*

(K.I. TURTCHEV).

Koks i Khimiya, 1957 (4) 16-22

Iron balance in the blast furnace industry.

(L.L. ZUZH et al.).

Stal^ (1957 J2(3) 26V267

T.O.L. No. 101

The role of pH in the anaerobic maceration of flax. I. The course of anaerobic maceration of flax at different pH.

(V.L. SHELIBK et al.).

Mikrobiologiya, 1957 *(i) 99-10^

T.C.L. No. 102

The effect of degree of vacuum during annealing on the properties of transformer steel.

(N.F. DUBOV et al.).

Metallovedenie i Obrabotka Metallov, 1957 (k) 51

Limiting glare in lighting appliances with luminescent lamps.

(V.V. LIAZHNEV et al.).

Svetotekhnika, 1957 1(2) 24-26

***e of ohaio roaiataBM tratiMttln* allpantB % tb« mytmirmanz « axial forces in bolts.**
(D.G. SOBITSKAYA et al.).
Zavodskaya laboratories 1956 £8(7) W6-857

The following which have not yet appeared in a i. L. U will be undertaken on receipt of a further request.

Steady state stability of a transmission aytai rtfeh regulating synchronous generator in a latexpmediate tubBfatlont.
(N.E. SOLOVYOV).
Electr. Engng, 1957 (5) 25-50

Methods of measurement of time of Mtal« ly eotnljaant la a praopltata Part I. Obnoantraton lj oo^praopltation,
(V.T. ORJKD).
Journal NaoputlotMikDI ma 11, 1957 2(5) 685-695

Determining UM vAalm of defbnntiob b/ a am o(tbo orltloal valnt of th. reUtivo dlaplaoaant.
U.I, KUQUHOV).
Avtoaoui 2takgl, 195612(3) 20-21**

NOTICE: Translation will shortly become available at the prices shown *which apply to the United Kingdom only. If further requests are received for any item before publication, its price will be reduced accordingly,

- OTS 408** **Some recommendations on "U" design of boilers with natural circulation for super-high steam parameters.**
(T.A. IOB0 et al.)
3.4.4. **Topla energije 1956 (11) 3-9**
- OTS 409** **Dynamic characteristics of QDOG^HmQli bouarc***
(A.A. DAVIDOT et al*)
2.8.4. **Toploenergetika P 1956 (11) 19-24**
- OTS 410** **Mffrtelai Sfaltos (an electro-hydraulic phenomenon)**
(H. TDOI0).
2.4.4. **Topla-Moleculi, 1957 (7) 14-16**

- CIS 412 Results of operating the VII experimental once-through boiler installation at 300 atm. and 600°C.
(K.A. ~~IK~~XDV et al.).
£1.12s. Teploenergetika, 1957 (3) 22*26
- CTS 413 On the kinetics of phenol-formaldehyde resin solidification with the aid of hexamethylenetetramine.
(L.A. IGONIN et al.).
£1, U. Doklady Akademii Nauk SSSR, 1956 11^(6) 1252-1254
- CIS 414 The problem of dust extraction from gases by the foam method.
(M.E. FOZIN et al.).
£1.12s. Zhurnal Prikladnoi Khimii, 1957 10(2) 293-296
- CIS 415 Evaluation of production indices from tests on the quality of coke.
(Z.Ė. VOLKDVA),
£3.4a. Sbornik Trudov Dnepropetrovskii Ordenatrudovogo Krasnogo ~~ton~~^{fy}*~~z~~\ Metallurgicheskii Institut imeni I.V. Stalina, 1955(33) 449-456
- CTS 416 On the formation and properties of bulk masses of coke.
(Z.A. VOLKDVA).
£2.16s. Sbornik Trudov Dnepropetrovskii Ordenatrudovogo Krasnogo ~~Znameni~~ Metallurgicheskii Institut imeni I.V. Stalina, 1955 (33) ~~442-448~~
- CIS 417 Causes of formation of spongy coke and methods of combating it*
(B.D. LEVIN).
£2. Koks i Khimiya, 1956 (8) 28-32
«
- CTS 418 Adiabatic tensile stressing as a method of investigating the character of the elasticity of elastomers.
(M.P. VOTINOV et al.).
£2.8s. Zhurnal Tekhnicheskoi Fiziki, 1955 ~~2~~^(12)2157-2162
- CTS 419 Pressure distribution over the area of the imprint of the driven wheel.
(V.I. KNOROZ).
£6.16s. Trudy Laboratorii Dvigateli, Akademiya Nauk SSSR, 1956 (2) 91-107
- CTS 420 Methods of measuring the temperatures of parts rotating at high speeds.
(B.¹A. PURS).
8s.0d. Liteinoe Proizvodstvo, 1956 (12) 19
- CIS 421 Heating glass and ceramic containers by means of semi-conductor films.
£1.43. Zavodskaya Laboratoriya, 1956 22(8) 993-995

SECTION C: The following translations have just become available at the prices shown, which apply to the United Kingdom only.

- 013 335 A CO_2 with continuous-alit tiaras tad controlled blast.
(I.A. JHIPPIN at al.).
»Od. Idteiaoa frohradstvo, 1956 (1) KM3
- CTS 345** feparloantal oharacteriatios of stratified flow In a ~~steam-water~~
•iiture In a straight, horiaontal pipe.
(S.I. roSIBON at al.).
** ToplooheretUa, 1956 (0 22-26
- 018 346 Investigation of the dielectric polarisation and losses In
polytrifluoroochloroethylene.
(G.P. MIKHAIIV at al.).
«1.15e. animal TeUmioheakoi FisHd, 1956 ~~26~~(8) 1723-1729
- CTS 350 AutcsAtio Machine tools.
(A.P. VLADZIEVSKII). ~~23~~(7) 13-16
^•12s. Rauka l Zhltfif 1956
- CTS 351** On tha xola of reduction prooaaas in the early atagas of the
thorwil daoapqoaltlon of ool.
(D.B. ORBOQOH).
Atedoflya Nauk SSSR. Trudy Vo»tochno-3ibipakogo Filial*, Serlya
KhiJrioheakaya 1955 (3) 105-126
«6.12a.
- CTS 352** Tha second oonfarafioa on automation in tha petroleun Industzy.
(H.JI. BBXAHDT).
15a.0d, ATeamtiJam 1 Telanekhanita, 1950 jj/1*) 266-268
- ^ 954 Stabilisation of dicaldum silloata.
(C.V. KUIOLIV at al.).
16»0d. Doklily Akadsjdl Kaufc 3S9B. 1956 10^(5) 1012-iOht
- 018 355 On sehejias for autooatio combustion control employijig an ~~oxygen~~
•at ex.
(V.D. MIHCWOV). „ x
^•10s. Taploenargatila, 1956 (11) 25-29
- CTS 356** Tha vacuum teohniqu«j in metallurgy,
(B.V. LINDCHIV~II).
16»04» Ketailurg, 19 ^ (7) 3-6
- CTS ^** Dilation of a discharge uharmel.
(A.S. ZIN&SIULN).
«1.16a. animal Taldmlohaskoi FisUd> 1956 ~~26~~(5) 1015-1020

- CTS 359 Inveatigatioh of the distribution of emission energy along the surface of an oxide (ooatad) cathode.
(D.G. BULYGINSKII et al.).
£2.14s. Zhurnal Tekhnioheslooi Fiziki, 1936 26(6) 1141-1149
- CTS 361 Application of the mass spectrometer to the investigation of the process of activation of an oxide-coated cathode.
(N.D. MOBGULS et al.).
i8s.0d. Zhurnal Teklinicheskoi Fiziki, 1956 26(6) 1174H176
- CTS 365 «fool Grease.
(E.I. GARLINSKAYA).
JBi.lta. Masloboino Surovaya Promy ahlennost•, 1956 2^(3) 26-29
- CTS 366 Heat capacity of clinkers of different fuels.
(b.B. VARGAFIK et al.).
SSL. Teploenergetika, 1955 (4) 13-17
- CTS 367 Electro-erosion machine model 4A721
(S.S. PODLAZDV).
i2s.0d. Stanki i Instrument, 1956 2^(11) 5-7
- CTS 368 Mathematioo-atastioal description of surface profile irregularity in grinding*
(Yu.V. LBMIK et al.).
<t2.8s. Inzhernernyi Sbornik, 1954 20 154-159
- CTS 371 The polymerisation of propylene in the presemoe of a series of phosph#rio acids containing fluorine and boron trifluoride.
(A.V. TOPCHIHV et al.).
£i.4a. Doklady Akadsmii Nauk S3SR, 1956 1j1(2) 365-8
- CTS 372 A method of determing the age of bronn field voles and its practical application.
(T.V. KSEDONA;.
£3.12s. Zoologioheskii Zhurnal, 1955 ijfc(3) 631-9
- CTS 384 The role of diffusion in the phenomena of adhesion between **high** polymers.
(S.S. VDYbTSKII et al.).
15s.0d. Dfjklady Akaderaii Nauk SSSR, 1955 lgg(5) 1000-1002
- CTS 386 Semiconductor theory at the VIIIth all-soviet conference on semiconductors.
(V.L. BONCHBRUEICCH).
£4.16s. Uspekhi Fizicheskikh Nauk, 1956 60(2) 213-224
- CTb 389 The present state of knowledge and problems relating to semiconductors*
(A.F. IOEFE).
£2.8s. Uspekhi Fizicheskikh Nauk, 1956 60(2) 173-178

**SECTION D: D.6.L.R. CO-OPERATIVE & HOME FOR REFUGEE
RUSSIAN TRANSLATIONS**

The Scheme applies to a selected number of the periodicals covered by the Translated Contents Lists of Russian Periodicals (published monthly by Her Majesty's Stationery Office at £4 per annum-) If two or more requests are received from any part of the world for the same article, a translation will be commissioned and the cost shared between the individuals requesting it, the D.S.I.R. contributing one share in the case of translations made on behalf of individuals in the United Kingdom. It is important to note that no translations will be commissioned, or expense incurred, unless more than one individual considers it worthwhile.

PERIODICALS COVERED BY THE SCHEME

The periodicals from which translations may be commissioned are, broadly speaking, those of scientific or technical interest to industry. Agricultural and medical periodicals are not included. The contents lists of periodicals concerned are marked:

**For TRANSLATIONS see
Section D of Supplement**

Request for translations may be sent in, at any time, for articles from 1952 and subsequent Issues of these periodicals, whether or not they have appeared in a T.C.L. In addition, articles such as those appearing in Transactions and Proceedings may also be translated.

This Supplement includes a list of articles for which only single requests have been received, there no second request materialises the originator of a single request will be duly notified that the Department is unable to arrange translation. Should another request be received subsequently, however, the original enquirer will be invited to requery his request.

COST

The cost of translations (including postage) will be as in the following table, The cost to overseas users is slightly higher in order to cover the additional cost of postage and to eliminate the subsidy. Air mail postage will be extra.

Number of Requests received	2	3	4 ^c	5	6	7	8	9 more
Charge per page (U.K.)	8A	6A	5/-	4/-	3/6	3/-	2/9	2/6
of original article (Overseas)	1Z/-	&A	6/-	5A	4/6	4/-	3/6	3/-

Each price will be maintained for a minimum period of eighteen months from date of issue, at the end of which a copy of the translation will be deposited in the Science Museum Library. Completed translations are notified in this Supplement.

Translations are not available on loan or otherwise than by purchase from the D.S.I.R. until 18 months from the date of issue; after this period has elapsed they may be borrowed (by institutions but not by individuals) or photocopies may be purchased, from the Science Museum Library, South Kensington, S.W.7.

REQUESTS FOR TRANSLATIONS

(i) Requests must be sent to the Department of Scientific and Industrial Research, (C.T.S.), Charles House, 5-11 Fegent Street, London, S.W.1., accompanied by a declaration in the following form:

•I/we desire to be supplied with a translation of the following article(s) in accordance with the D.S.I.R. scheme for Russian translations and I/we agree to abide by the rules of this scheme as advertised*.

(ii) Requests for a translation to be made must cite:-

- (a) the number and page of the Translated Contents List in which the article appears (if known);
- (b) a transliterated version of the first author's name and
- (c) the title, year, volume, part number and page of the periodical,

(iii) Requests for translations already made must cite either the relevant C.T.S. number or the details as in (a) - (c) above.

ADDITIONAL COPIES

An individual or an organization requesting a translation may request any number of additional copies at a cost of 1/- (one shilling) per page, or part of a page, in the original article.

PUBLICATION

Any translation made under this scheme may not be reproduced or published for eighteen months after issue without permission from D.S.I.R.

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Byulletin Moskovskogo Obshchestva Ispytelii Prirody Otdel. Biologicheskii, 1956 <u>61.U</u> >	4	Bulletin of the Moscow Naturalist Society
Doklady Akademii Nauk SSSR, 1957 <u>114</u> (^6)	5	Reports of the USSR Academy of Sciences
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Psiologicheskii Zhurnal. SSSR. im I.i. Sechenov. 1957 ii(5)	23	Sechenov Physiological Journal
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Izvestiya Akademii Nauk SSSR, Seriya Fiziko-Matematicheskaya, 1957 21(3)	3*	Bulletin of the USSR Academy of Sciences, Physical Series*
Izvestiya Akademii Nauk SSSR, Seriya Geograficheskaya, 1957 (2), 1957 (1)	38	Bulletin of the USSR Academy of Sciences, Geographical Series*
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Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva, 1957 26(3)	128	Transactions of the All-Union Mineralogical Society
Zhurnal Fizicheskoi Khimii, 1957 31(2-4)	129	Journal of Physical Chemistry
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Zhurnal Neorganicheskoi Khimii, 1957 11(3-4)	143	Journal of Inorganic Chemistry
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For TRANSLATIONS, see
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1957- No. 7

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- p. 2. fensage to young architects from senior architects*
1. Zholtovsldi, A. Veanin and V. Semnor.
- P- 3. Creative activity of young architects*
S. Tutuchenko
- P- 6. Moscow, the city of the festival.
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- P-10. Leningrad, the city of the October revolution.
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- P-15. On the open spaces of the Ukraine.
i. Kateznoga.
- P-19. The rebuilt cities of White Russia.
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- P*24. In the region of virgin land.
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- P-28. The building sites of Uzbekistan.
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- P-35. On the shores of the Baltic Sea.
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- P-59. Woacow students.
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- P-61. A festival greeting to our friends rrom abroad.
A. Kusietsov.
- P-65- The renowned architectural tradition of Leningrad.
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- P-7Z. Internatìonal seminar for students fron schools of architecture and structural engineering*
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- p.601 Conditionally stable control systems, (one class of optimum control systems.) A.M.Letov.
- p.61± Determination of an optimum linear dynamical system according to the criterion of a particular type of a functional extremum. N.I.Andreyev.
- p.620 The equation which determines the law of distribution of the integral of a system of ordinary differential equations containing random parameters. B.G.Dostupor A V.S.PagacheT.
- p.631 Approximate determination of the process of fixing self-induced oscillations in some non-linear systems of automatic regulation. A.A.Voronov.
- p. 640 Automatic control of the level of a liquid by the phase method using ultra-short waves. V.B.Brodsk*.
- p.653 Structure of telemechanical lines for scattered objects. V.A.II'in.
- p.660 Special features of the design of multi-stage magnetic amplifiers. N.P.Vasil'yeva et al.
- p. 669 Electronic model of a wire potentiometer. M. A. Shnaydman.
- p.678 Working calculation of the reliability of the work of systems containing a large number of elements. G.V.Druzhinin.
- p.681 Three-phase magnetic amplifier. V.V.Oorsky.
- p.686 Modulation of radioactive radiation in automatic control devices. D.I.Ageykin et al*

AVTOMATIKA I TELEMEXHANIKA

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- p.689 Improvement of static characteristic of a pneumatic relay by using a constart drop choke. V.N.Dmltriyev.
- p.702 Some methods of stabilizing and regulating small flows of operating liquid In hydraulic automatic systems. I.N.Kichin.
- p.716 Some problems of the theory of magnetic amplifiers and magnetic modulation sondes of the "second harmonic" type. V.N.Mikhaylovsky et al.
- p.72U Choice of working conditions and design of electronic voltage stabilizers. L.A.Bayda and V.K.Zakharov.
- p.7U0 Some properties of circuits containing thermo resistances. G.K.Nechayev.
- P.7U9 Exponential time-pulse converters. A.I.Novikov.
- p.756 Code rings and their use in telemechanical devices. A.N.Radchenko.
- p.76U Design of electro-magnetic systems on electrical models. S. A. Alekerov.

Fot TRANSLATIONS see
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БЕТОН И ЖЕЛЕЗОБЕТОН
1957. No. 8

- P<299. "Builders¹ day".
Anon.
- P-3Q1. Development of the precast reinforced concrete Industry in Moscow,
S.P. Maiorov and DJ£. Chudnovskii.
- P-304. Conveyor technique of production of reinforced concrete
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