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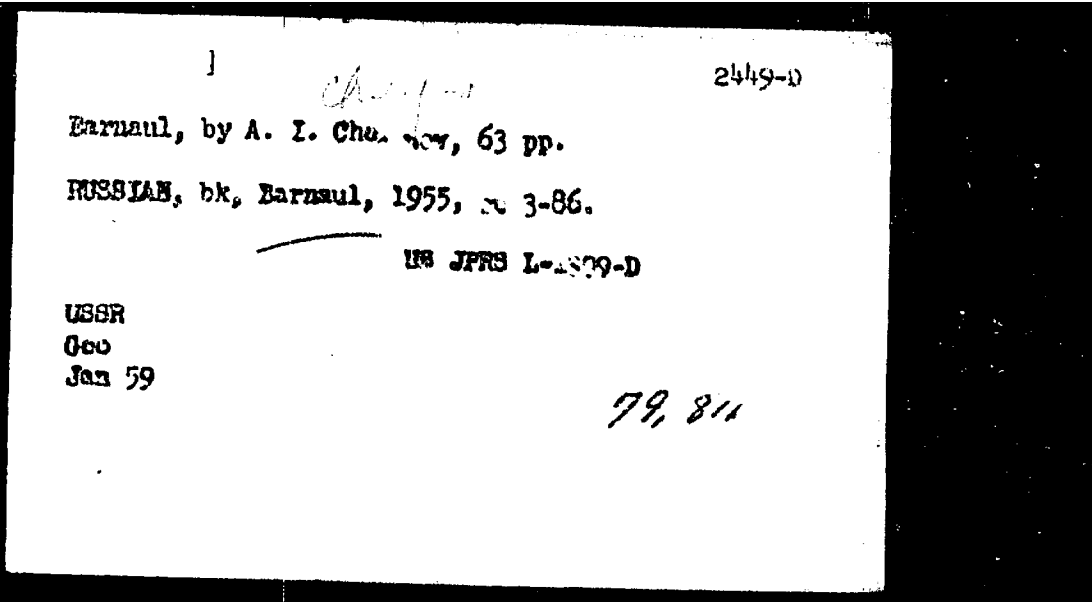
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distribution, Joints, Tests.

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methods of taking into account the effect of stress
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Transmission of Stress to Concrete by the
Steel in Prestressed Members, by E. G. Ratts,
M. M. Kholmyanskiy, V. M. Kol'nev, 28 pp.

RUSSIAN, per, Beton i Zhelezobeton, No 1,
1958, pp 4-13.

SLA 60-15378

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Thermal Treatment of Concrete , by S. V.
Shestoporov, L. I. Panfilova, 11 pp.

RUSSIAN, per, Beton i Zhelezobeton, No 1,
1958, pp 19-22.

SLA 60-15377

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169,363

Shear Strain In Reinforced-Concrete Beams Made
Of High-strength Concrete by E. Povalyev.

RUSSIAN, per, Beton I Zhelezobeton, No 1, 1958,
pp 22-26.

CSIRO Tr 4047

Oct. 62

Shakhin, L. B.
 TESTS OF UNISYMMETRICALLY LOADED SQUARE
 REINFORCED CONCRETE PLATES (Istodivaniye
 Vnesnyayeykh Raznyanaykh Kva kvatnykh zhenozh-
 betonnykh plit) Tr. Vuz. St. B. 14, [1957] 14p. (Incl. in
 the USSR Trans. no. 43)
 (Materials, TT, v. 5, no. 4), 1957, 14p. (1-14) 1957

Trans. of Beton i zhelezobeton (USSR) 1957, no. 3,
 p. 100-103.

Tests showed that the components of three-dimen-
 sional thin-walled reinforced-concrete structures
 can be regarded as a series of discrete walls (plates)
 of containers, with no allowance necessary for a
 general connection between them.

(Materials, TT, v. 5, no. 4)

64-13591

- I. Reinforced concrete -
 Testable properties
2. Reinforced concrete -
 Load characteristics
3. Thin Concrete plate -
 I. Shakhin, L. B.
 II. GOSTO Trans. 434
- III. Commonwealth Scientific and
 Industrial Research
 Organization (Australia)

143,157

Office of Technical Services

Mal'tsov, K. A.
PHYSICAL SIGNIFICANCE OF CONVENTIONAL
CRITICAL TENSILE STRENGTH OF CONCRETE
IN BENDING (Fizicheskiy Smysl Uslovnogo Predela
Prochnosti Betona na Rastyazheniye pri Izbige) tr. i y
R. J. Zaterski. [1960] [19]p. (foreign text included)
12 refs. Trans. no. 4442.
Order from LC or SLA ml\$2.40, ph\$3.30 61-13890

Trans. of Beton i Zhelezobeton (USSR) 1958, no. 3,
p. 107-111.

Experiments indicated that cracks begin to develop in
bent concrete sections when stresses reach the criti-
cal strength in the longitudinal direction. The load
which causes the appearance of cracks, in a single
static distribution, is not a breaking load and the
critical equilibrium is reached only after a signifi-
cantly increased load is exerted. The difference be-
tween the conventional critical strength under ex-
centric loads and in the axial elongation is determined
(Materials, TT, v. 5, no. 4) (over)

61-13890

1. Concrete--Tensile properties
2. Concrete--Stresses
- I. Mal'tsov, K. A.
- II. CSIRO Trans-4442
- III. Commonwealth Scientific and Industrial Research Organization (Australia)

143, 158

Office of Technical Services

61-13276

Krlov, S. M. and Ikramov, S. I.
 INFLUENCE OF PROFILE AND PLASTIC PROPERTIES OF REINFORCEMENT ON THE STRESS DISTRIBUTION IN STATICALLY INDETERMINATE REINFORCED CONSTRUCTIONS (Vliyaniye Profilya i Plasticheskikh Svoyst Armatury na Poveras Redeleniye Usiliy v Staticheski Neopredelimykh Zhelezobetonnnykh Konstruktsiyakh) tr. by E. Feigl. [1960] [14]. (foreign text included). Trans. no. 4446.
 Order from LC or SLA ml\$2.40, ph\$3.30 61-13276

Trans. of Beton i Zhelezobeton (USSR) 1958, no. 5, p. 183-186.

Solid double-span concrete beams with various reinforcements were mechanically loaded until they collapsed. Smooth reinforcement effected a complete redistribution of stresses and was far from fracture when the beams collapsed. A cold-drawn ribbed reinforcement with the same plastic properties was fractured upon collapse. Results suggest that cohesion (Materials, TT, v. 5, no. 7) (over)

1. Reinforced concrete--Stresses
2. Beams--Stresses
3. Reinforcing steel--Development
4. Construction materials Industry--USSR
 - I. Krlov, S. M.
 - II. Ikramov, S. I.
 - III. CSIRO Trans-4446
 - IV. Commonwealth Scientific and Industrial Research Organization (Australia)

148,702

Office of Technical Services

61-19378

Ovechkin, A. M.
STUDY OF THE CARRYING CAPACITY OF REIN-
FORCED CONCRETE ARCHES AND DOMES OVER
AN INCLINED SECTION (Izlozovaniye Nesushchey
Sposobnosti Zhelezobetonnykh Ark i Kupolov po
Naklonnym Secheniyam) tr. in Russ. Peigl. [1961] [14]p.
(foreign text included). [C. Trans. 4445.
Order from LC or SLA inc. \$3.30 61-19378

Trans. of Beton i Zhelezobeton (USSR) 1958, no. 5,
p. 187-190.

1. Reinforced concrete--
Mechanical properties
2. Structures--Stresses
1. Ovechkin, A. M.
- II. CSIRO Trans-1145
- III. Commonwealth Scientific
and Industrial Research
Organization (Australia)

100000

Office of Technical Services

(Materials, TT, v. 5, no. 11)

Problems of Stiffness and Strength of Three-
Dimensional Systems of Frame-and-Panel Buildings,
by P. Shagin.

RUSSIAN, per, Beton i Zhelezobeton, No 6, 1958,
pp 226-228.

CSIRO Tr 4524

Sci - Engr

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Khaydukov, G. K. and Darik, N. B.
THE MANUFACTURE OF THIN PRESTRESSED
CONCRETE FLOOR PANELS ON CONVEYORS BY
THE METHOD OF NON-CONTINUOUS ROLLING IN
THE MOULDS (Predvaritel'no Napryazhennyye
Tonkostennyye Panelli Perekrytiy i ikh Izgotovleniye na
Konveyere Sposobom Preryvistogo Prokata v
Matritsakh) tr. by G. N. Gibson. July 60 [8]p. 1 ref.
DSIR Library Communication no. 987.
Order from LC or SLA mi\$1.80, ph\$1.80 61-13953

Trans. of *Beton i Zhelezobeton* (USSR) 1958, no. 7,
p. 259-263.

151937

(Machinery--Manufacturing, TT, v. 5, no. 9)

61-13953

- 1. Floor--Materials
- 2. Sheets--Production
- I. Khaidukov, G. K.
- II. Darik, N. B.
- III. LC-987
- IV. Department of Scientific
and Industrial Research
(G. Brit.)

NLL M. 2795-

GB/21/LC. 987

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Semenov, P. I. and Sazonov, R. M.
APPROXIMATE METHOD OF CALCULATION OF
FLOORS AND CROSS-WALLS OF BUILDINGS CON-
STRUCTED OF LARGE PANELS, WITHOUT A
FRAME, EXPOSED TO HORIZONTAL (WIND) LOAD
(Priblizhennyi Raschet Konstruktsii Perekrytil i Pope-
rechnykh Diafragm Panel'nykh Beskarkasnykh Zdanii na
Gorizontal'nyu Nagruzku) tr. by G. N. Gibson.
Oct 60 [7]p. Library Communication no. 1005;
[DSIR LLU] M3186.

Order from OTS or SLA \$1.10 61-28138

Trans. of Beton i Zhelezobeton (USSR) 1958, no. 7,
p. 278-280.
Another trans. is available from LC or SLA at \$2.40,
pb \$3.30 as 60-23667, CSIRO Trans-4525 [1960] 11p.
(foreign text included).

DESCRIPTORS: *Structures, Design, Stresses, Load
distribution, Wind.

61-28138

- I. Semenov, P. I.
- II. Sazonov, R. M.
- III. LC-1005
- IV. DSIR LLU M. 3186
- V. Department of Scientific and
Industrial Research
(Gt. Brit.)

GB/21/LC. 1005

185621

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

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Some Problems on the Rheology of a Concrete
Mix, by A. A. Pavlik, 19 pp.

RUSSIAN, per, Beton i Zhelezobeton, No 10,
1958, pp 372-378.

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OTS, Vol III, No 12

SLA 60-13744
OSIR LLU M. 1041 (loan)

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Corrosion of the Reinforcement in Autoclaved
Cellular Cinderete, by S. Alekseev, L. Rosenfel'd.

RUSSIAN, per, Beton i Zhelezobeton, No 10, 1958,
p 388.

C. S. I. R. O. T4447
OTS 66-15527

Sci

May 60

115,666

Protection of Steel Forms Against Corrosion,
by I. Kiselev, I. Zheleznyak.

RUSSIAN, par, Beton I Zhelezobeton, No 10,
1958, p 389.

C. S. I. R. O. 74448

SLA 60-15530

Sci

May 60

115,678

Large-Scale Underground Construction in an
Operating Steel Plant, 15 pp.

RUSSIAN, per, Beton i Zhelezobeton, No 11, 1958,
pp 414-417.

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TT-62-26740

Kornilovich, I. E. and Osadchuk, Ya. E.
NOUVEL APPAREIL PERMETTANT L'ETUDE DE LA
RESISTANCE DU BETON DANS LA CONSTRUCTION
(A New Apparatus for the Study of the Resistance of
Concrete in Construction). 7p. CNRS-XXV 375.
Order from OTS, ETC or CNRS \$0.80 TT-62-26740

Trans. in French of Beton i Zhelezobeton (USSR) 1958,
no. 11, p. 431-432.

DESCRIPTORS: *Concrete, Quality control, Mechanical
properties, *Non-destructive testing.

- I. Kornilovich, I. E.
- II. Osadchuk, Ya. E.
- III. CNRS-XXV 375
- IV. Centre National de la Recherche Scientifique, Paris

(Engineering--Civil, TT, v. 11, no. 6)

Office of Technical Services
European Translations Centre

QUELQUES PROPRIÉTÉS MÉCANIQUES DU BETON ,
D'UNE IMPORTANCE ESSENTIELLE, CONCERNANT
LA MÉCANIQUE DES CONSTRUCTIONS EN BETON
ARMÉ (I) (Some Mechanical Properties of Concrete,
of Essential Importance, Concerning the Mechanism
of Constructions in Reinforced Concrete). 25p. 36 refs.
(text in French).
Order from OTS or ETC \$1.65 62-26328

Trans. in French of Beton i Zhelezobeton (USSR) 1959,
[no. 1] p. 5-17.

DESCRIPTORS: Concrete, Mechanical properties,
*Reinforced concrete, Construction, *Mechanics,
Theory, Deformation, Resistance, Creep.

(Materials, TT, v. 9, no. 8)

62-26328

1. Centre National de la
Recherche Scientifique
(France)

Office of Technical Services

Strength and Deformation of Silicate Concrete
Under Compression, by V. Gusakov.

RUSSIAN, per, Beton i Zhelezobeton, No 1, 1959,
pp 25-29.

CSIRO Tr 5014

Sci - Engr

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150,520

Reverse Trans to French
by: CTS 62-26982

<p>Goryaynov, K. E. and Zasedatelev, I. B. THERMAL PROCESSES TAKING PLACE IN AUTO- CLAVE TREATMENT OF LARGE CELLULAR CON- CRETE UNITS (Teplofizicheskiye Protsessy pri Avioklavnoy Obrabotke Krupnorazmernykh Izdely iz Yachelistykh Betonov) tr. by M. Slade. [1960] [20]p. (foreign text included) 1 ref. Trans. no. 4644. Order from LC or SLA mi\$2. 40, ph\$3. 30 61-15178</p> <p>Trans. of Beton i Zhelezobeton (USSR) 1959, no. 2, p. 62-67.</p> <p>Tests indicated that pressure is raised above atmos- pheric pressure the strength of the concrete harden- ing in it is greatly increased. To shorten the time of the hydrothermal treatment and still obtain crack- free blocks, the surface modulus of the object made of ash foam-concrete must be not less than 12 m^{-1}; this is ensured by providing holes in the block or re- ducing the thickness of the pieces. During the heating- up period ($t_c < 100$) the holes have virtually no ac- (Materials, TT, v. 5, no. 4) (over)</p>	<p>61-15178</p> <ol style="list-style-type: none">1. Concrete--Heat treatment2. Title: Cellular concrete1. Goryaynov, K. E.II. Zasedatelev, I. B.III. CSIRO Trans-4644.IV. Commonwealth Scientific and Industrial Research Organization (Australia) <p>143,333</p> <p>Office of Technical Services</p>
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Semenov, L. A.
 EFFECTS OF THE EXISTING STEAM CHAMBERS.
 (O bezkretit'nykh i bezkretit'nykh Proparochuykh
 kam'ra) tr. by M. Stade. [1960] 15 b. (foreign text
 included) 2 refs. Trans. no. 4645.
 Order from IC or SLA ml\$2.40, ph\$3.20 61-13889

Trans. of Stroyizhelezbeton (USSR) 1959, no. 2,
 p. 21-25

143,159

61-13889

1. Concrete--Hardening
2. Concrete--Heat treatment
3. Steam--Applications
4. Title: Steam chambers
- I. Semenov, L. A.
- II. CSIRO Trans-4645
- III. Commonwealth Scientific and Industrial Research Organization (Australia)

Office of Technical Services

(MADR 100-11, 4-5, 60, 4)

<p>Lebel, L. M. and Knyazhevich, M. G. STUDY OF JOINTS IN SECTIONAL REINFORCED- CONCRETE SLABS (Issledovaniya Svykov Skornnykh Zhelezobetonnykh Plit) tr. by M. Slade. [1960] [13]p. (foreign text included). Trans. no. 4646. Order from LC or SLA-m1\$2.40, ph\$3.30 61-13278</p> <p>Trans. of <u>Beton i Zhelezobeton</u> (USSR) 1959, no. 2, p. 52-55.</p> <p>A comparison is presented of the resistance to crack- ing, the rigidity, and the carrying capacity of sec- tional and one-piece reinforced-concrete slabs. Perederi joints with circular and elongated loops a joint made by welding strips of steel to the emerging ends of the reinforcement and a toothed joint with steel rods welded to the ends of the reinforcement of the slabs were compared with one-piece slabs.</p> <p>(Materials, TT, v. 5, no. 4)</p>	<p>DR-</p> <p>61-13278</p> <ol style="list-style-type: none"> 1. Reinforced concrete-- Tensile properties 2. Joints--Test results <p>I. Lebel, L. M. II. Knyazhevich, M. G. III. CSIRO Trans-4646 IV. Commonwealth Scientific and Industrial Research Organization (Australia)</p> <p>143,345 NLL M. 2738</p> <p>Office of Technical Services</p>
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