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 REINFORCED CONCRETE PLATES (Sledivaniye
 Vnestsennogo Plakata s Kreshchivaniyem Zheljezobetonnykh Plakatai pri K. Plade, [1959] [14]p. (foreign
 text included) 1 ref. Trans. no. 447
 (this is an issue of STAN 157, 40, 1959, 13, 61-13891)

Trans. of Boris Zhdanovskiy (USSR) 1959, no. 3,
 p. 109-113.

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 constant, with no allowance necessary for a
 general connection between them.

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

- I. Reinforced concrete
 Thin-walled plates
2. Reinforced concrete
 Thin-walled plates
3. Thin concrete plates
 A. Shakhin, L. S.
 B. Zhdanovskiy
- 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 (Fizicheskii Smysl Uslovnogo Predela
Prochnosti Betona pri Rastyazhenii pri Izgibe) tr. i y
R. J. Zatorski. [1960] [19]p. (foreign text included)
17 refs. Trans. no. 4442.

Order from LCor SLA mi \$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, IT, v. 5, no. 4) (over)

61-13890

- I. 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

Krilov, 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 Povedeniye Redeleniye Usiliy v Staticheski Neopredelimykh Zhelezobetonnykh Konstruktsiyakh) tr. by E. Feigl. [1960] [14]p. (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. Krilov, S. M.
- II. Ikramov, S. I.
- III. CSIRO Trans-4446
- IV. Commonwealth Scientific and Industrial Research Organization (Australia)

148,702

Office of Technical Services

Ovechkin, A. M.
STUDY OF THE CARRYING CAPACITY OF REIN-
FORCED CONCRETE ARCHES AND DOMES OVER
AN INCLINED SECTION (Issledovaniye Nesushchey
Sposobnosti Zhelezobetonnykh Arok i Kupolov po
Naklonnyim Secheniyam) tr. E. Peigl. [1961] [14]p.
(foreign text included). [CS] Trans. 4445.
Order from L.C. or SLA int. , ph\$3.30 61-19378

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

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

61-19378

1. Reinforced concrete--
Mechanical properties
2. Structures--Stresses
1. Ovechkin, A. M.
- II. CSIRO Trans-4445
- III. Commonwealth Scientific
and Industrial Research
Organization (Australia)

Office of Technical Services

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

Jun 61

157,791

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 Napryazhenyye
 Tonkostennyye Paneli Perekrytiy i ikh Izgotovleniye na
 Konveyere Spособom 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 m\$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

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

NLL M. 2785

GB/21/LC. 987

Office of Technical Services

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 Perekryti i Po-
 rechnykh Difragn Panel'nykh Beskarkasnykh Zdanil na
 Gorizontol'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 m/\$2.40,
 ph\$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)

Office of Technical Services

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.

Sci

Apr 61

OTS, Vol III, No 12

SLA 60-13744

DSIR LLU M. 1041 (loan)

163,290

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

RUSSIAN, per, Beton i Zhelezobeton, No 10, 1958,
p 383.

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

Sci

May 60

115,666

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

RUSSIAN, per, Beton i Zhelezobeton, No 10,
1958, p 389.

801

May 60

C. S. I. R. O. T448

62A 60-1580

115,678

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

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

Air Info Div T-29

USSR
Econ
Sci - Engr
Aug 59

93, 489

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). 17p. 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.

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

TT-62-26740

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

Office of Technical Services
European Translations Centre

QUELQUES PROPRIÉTÉS MÉCANIQUES DU BETON,
D'UNE IMPORTANCE ESSENTIELLE, CONCERNANT
LA MÉCANIQUE DES CONSTRUCTIONS EN BETON
ARMÉ (1) (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. Gusekov.

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

CSIRO Tr 5014

Sci. - Engr

Jan 61

156520
Revised Name to French
by: CTS 62-26902

Goryaynov, K. E. and Zasedatelev, I. B.
THERMAL PROCESSES TAKING PLACE IN AUTO-
CLAVE TREATMENT OF LARGE CELLULAR CON-
CRETE UNITS (Teplofizicheskiye Protsessy pri
Avtoklavnoy Obrabotke Krupnorazmernykh Izdeliy iz
Yacheistyykh Betonov) tr. by M. Slade. [1960] [20]p.
(foreign text included) 1 ref. Trans. no. 4644.
Order from JC or SLA ml\$2.40, ml\$3.30 61-15178

Trans. of Beton i Zhelozobeton (USSR) 1959, no. 2,
p. 62-67.

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, IT, v. 5, no. 4) (over)

61-15178

- I. Concrete-Heat treatment
2. Title: Cellular concrete
- I. Goryaynov, K. E.
- II. Zasedatelev, I. B.
- III. CSIRO Trans-4644.
- IV. Commonwealth Scientific and
Industrial Research
Organization (Australia)

143,333

Office of Technical Services

Semenov, L. A.
 DEFECTS OF THE EXISTING STEAM CHAMBERS.
 (G) [Soviet author: Semenov, L. A. Proparochnyykh
 kamny] tr. by M. Glade. [1960] [15 p. (foreign text
 included) 2 refs. Transl. no. 4645.
 Order from LC of SLA m\$2.40, [1953.20] 61-13889

Transl. of Beton i Zhelozobeton (USSR) 1959, no. 2,
 p. 171-75.

143,159

61-13889

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

Office of Technical Services

(Slater) [T. 5, no. 4]

Lebel, L. M. and Knyazhevich, M. G.
STUDY OF JOINTS IN SECTIONAL REINFORCED-
CONCRETE SLABS (Issledovaniya Svykov Sbornykh
Zhelezobetonnykh Plit) tr. by M. Slade. [1960] [13]p.
(foreign text included). Trans. no. 4646.
Order from L.C. or S.L.A.-ml\$2.40, ph\$3.30 61-13278

Trans. of Beton i Zhelezobeton (USSR) 1959, no. 2,
p. 52-55.

A comparison is presented of the resistance to crack-
ing, the rigidity, and the carrying capacity of sec-
tioned and one-piece reinforced-concrete slabs.
Periodic 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.

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

PR-

61-13278

1. Reinforced concrete--
Tensile properties
2. Joints--Test results
 - I. Lebel, L. M.
 - II. Knyazhevich, M. G.
 - III. CSIRO Trans-4646
 - IV. Commonwealth Scientific
and Industrial Research
Organization (Australia)

143,345
NLL M. 2938

Office of Technical Services

Soroker, V. I., Spivak, N. Ya. and Sokolov, V. A.
 CASTING HOLLOW AND RIBBED THIN-WALLED
 REINFORCED CONCRETE PANELS IN VERTICAL
 MOULDS ("CASETTES") (Formovka Pustotelykh i
 Chastorebristyykh Tonkostennyykh Zhelezobetonnykh
 Paneley v Kassetakh) tr. by G. N. Gibson. Mar 60 [7]
 Library Communication no. 981.
 Order from LC or SLA mi\$1.80, ph\$1.80 61-15292

Trans. of Beton i Zhelezobeton (USSR) 1959, no. 3,
 p. 100-103.

A survey.

151949

(Materials, TT, v. 5, no. 9)

61-15292

1. Reinforced concrete--
Molding
2. Sheets--Molding
- I. Soroker, V. I.
- II. Spivak, N. Ya.
- III. Sokolov, V. A.
- IV. LC-981
- V. Department of Scientific and
Industrial Research
(G. Brit.)

NLL m. 2941

Office of Technical Services

62-14253

I. Lessig. N. N.

Lessig, N. N.
DETERMINATION OF THE LOAD-CARRYING CAPACITY OF REINFORCED CONCRETE ELEMENTS WITH RECTANGULAR CROSS-SECTION UNDER SIMULTANEOUS ACTION OF FLEXURE AND TORSION. [1951] [11]p.
Order from OTS or SLA \$1.60

62-14253

Trans. of Beton i Zhlezobeton (USSR) 1959, no. 3,
p. 109-113.

DESCRIPTORS: *Reinforced concrete, Load distribution, Failure (Mechanics), Determination, Design, Torsion bars, Plasticity, Flexible couplings, *Structures.

Experiments permitted a determination of the mode of failure of rectangular reinforced concrete elements working in torsion and flexure, and derivation of design formulas for the determination of their load-
(Engineering--Civil, TT, v. 8, no. 9) (over)

Office of Technical Services

Krylov, N. A. and Durasov, A. S.
LES METHODES ACTUELLES DU CONTROLE DE LA
QUALITE DU BETON (Current Methods for Controlling
the Quality of Concrete). 19p. (text in French).
Order from OTS or ETC \$1.35 62-26321

Trans: in French of Beton i Zhelezobeton (USSR) 1959,
no. 3, p. 113-117.

DESCRIPTORS: *Concrete, *Quality control,
Ultrasonics, Elasticity, Deformation, Vibration,
Mechanical properties.

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

62-26321

- I. Krylov, N. A.
- II. Durasov, A. S.
- III. Centre National de la
Recherche Scientifique
(France)

Office of Technical Services