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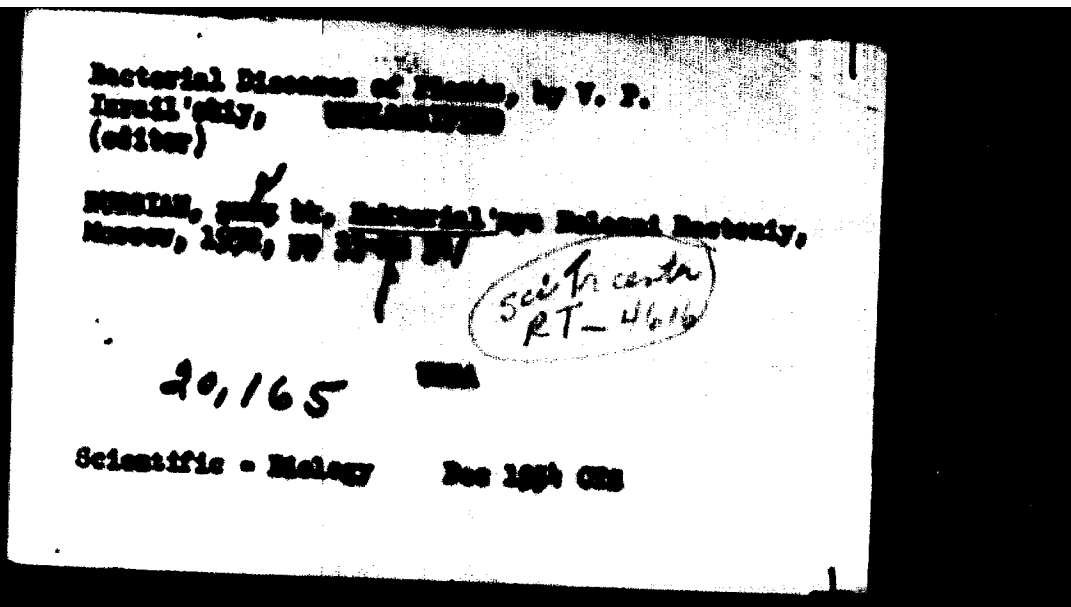
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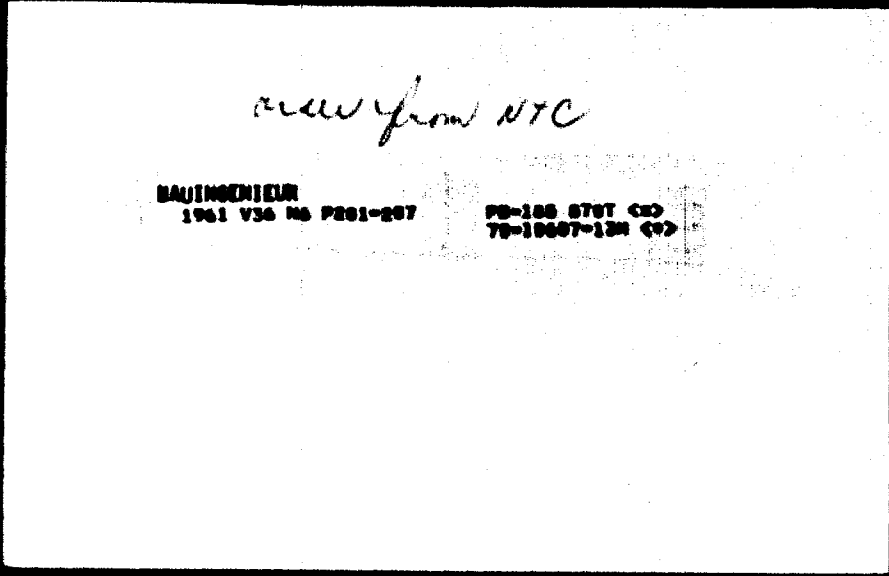
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RUSSIAN, per, Beton i Zhelezobeton, No 10, 1957,
pp 413-415.

DSIR LHM M.949
(loan)

122,559

Sci - Eng

Aug 60

The Fire Resistance of Elements of Ordinary
Reinforced and of Prestressed Concrete Subjected
to Bending, by V. I. Musashev, A. I. Yakovlev. UNCL

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pp 467-472.

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Kuzmichev, A. E.
INVESTIGATION OF THE LOAD-BEARING CAPACITY
OF REINFORCED CONCRETE FRAMES AND PRE-
CAST CONTINUOUS BEAMS. [1963] 18p.
Order from OTS or SLA \$1.60 63-14711

Trans. of Beton i Zhelozobeton (USSR) 1957, no. 12,
p. 486-491.

DESCRIPTORS. *Reinforced concrete, Loading
(Mechanics). *Structural parts, Beams (Structural),
Mechanical properties, Reinforcing materials, Load
distribution, Joints, Tests.

It is shown that in precast statically indeterminate
reinforced concrete structures stress redistribution
due to elastic deformations takes place in the same
manner as in monolithic structures. Consequently,
methods of taking into account the effect of stress
(Engineering--Civil, TT, v. 10, no. 5) (over)

63-14711

I. Kuzmichev, A. E.

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Transmission of Stress to Concrete by the
Steel in Prestressed Members, by E. G. Ratts,
M. M. Kholmyanskiy, V. M. Kal'nev, 28 pp.

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

JLA 60-15378

Sci
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Thermal Treatment of Concrete , by S. V.
Shostoprov, L. I. Penfilov, 11 pp.

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

SIA 60-15377

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

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

CSIRO Tr 4047

Oct. 62

Mal'tsov, K. A.
**PHYSICAL SIGNIFICANCE OF CONVENTIONAL
CRITICAL TENSILE STRENGTH OF CONCRETE
IN BENDING** (Fizicheskiy Smysl Ulovnoy Prodeli
Prochnosti Beton na Rasstyzheniye pri Izgibe) tr. y
R. J. Zmeraki. [1960] [19]p. (Foreign text included)
17 refs. Trans. no. 4442.
Order from LC or SLA ml57. 40, p453. 30 61-13490

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

Experiments indicated that cracks begin to develop in
beam concrete sections when stresses reach the critical
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)

61-13490

- 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

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Kritlov, S. M. and Ibramov, S. I.
 INFLUENCE OF PROFILE AND PLASTIC PROPERTIES OF REINFORCEMENT ON THE STRESS DISTRIBUTION IN STATICALLY INDETERMINATE REINFORCED CONSTRUCTIONS (Vliyaniye Profilya i Plasticheskiy Svoyst Armirovaniya na Raspredeledeniye Napryazheniy v Staticheski Neopredelennykh Zhelazo-Betonnnykh Konstruktsiyakh) (r. by E. Feijl. [1960] [14]. (foreign text included) Trans. no. 4446. Order from LC or SLA ref: 40, (65) 30 61-13276

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

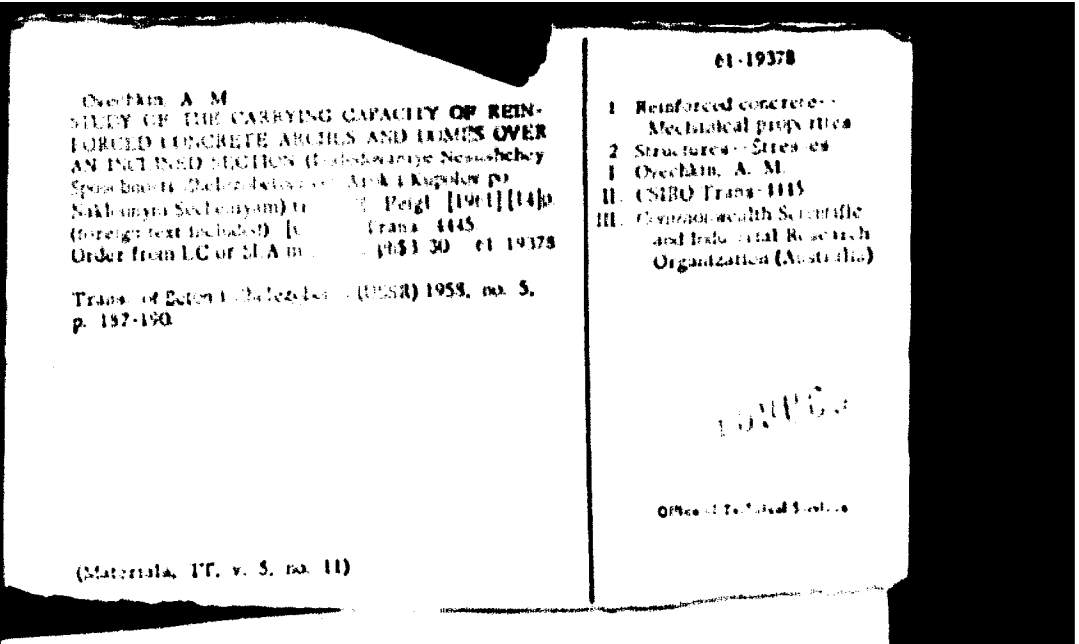
Solid double-span concrete beams with various reinforcements were mechanically loaded until they collapsed. Smooth reinforcement effected a complete redistribution of stresses and was far from fracture when the beams collapsed. A cold-drawn ribbed reinforcement with the same plastic properties was fractured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

61-13276

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

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Orechkin, A. M.
 STUDY OF THE CARRYING CAPACITY OF REIN-
 FORCED CONCRETE ARCHES AND DOMES OVER
 AN INCLINED SECTION (Iz slozhenykh Nema-shchey
 Spozobnykh Dzhel'zobetonnykh Ark i Kupolov po
 Nakhonyu Svoystvuyam) tr. inzh. Peigl' [1961] [14]
 (foreign text included) [Aust. Trans. 4445
 Order from LC of CIA in ...] [65] 30 01 19378

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

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

61-19378

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

1961

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 Zhelesobeton, No 6, 1958,
pp 226-228.

CSIRO Tr 452*

Soi - Engr

Jun 61

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<p>Khaidukov, G. K. and Derzh, N. S. THE MANUFACTURE OF THIN PRESTRESSED CONCRETE FLOOR PANELS ON CONVEYORS BY THE METHOD OF NON-CONTINUOUS ROLLING IN THE MOULDS (Proizvoditel'no Negryzhenyye Tonkostennyye Panneli Perekrytiy i ikh Izgotovleniye na Konveyere Spetsialnogo Prizyivnogo Prokatsa v Matritsakh) tr. by G. N. Gibson. July 60 [8]p. 1 ref. DSIR Library Communication no. 967. Order from LC or SLA ml51.80, ph51.80 61-13983</p>	<p>61-13983</p> <p>1. Floors--Materials 2. Sheets--Production I. Khaidukov, G. K. II. Derzh, N. S. III. LC-987 IV. Department of Scientific and Industrial Research (O. Brn.)</p> <p><i>NLL ml. 2785</i></p> <p><i>GB/21/LC. 989</i></p> <p>Office of Technical Services</p>
<p>Trans. of (Atom i Zhel'eznitsa (USSR) 1958, no. 7, p. 258-263.)</p> <p>151937</p> <p>(Machinery--Manufacturing, TT, v. 5, no. 9)</p>	

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
(Priblizhenyi Raschet Konstruktsii Perokryti i Poper-
rechnykh Diafragm Panel'nykh Beskarbasykh Zdesni na
Gorizontal'nuyu Nagruzku) tr. by G. N. Gibson.
Oct 60 [7]p. Library Communication no. 1005;
[DSR 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 mi\$2.40,
pb\$3.30 as 60-23667, CSIRO Trans-4525 [1960] 11p.
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DESCRIPTORS: *Structures, Design, Stresses, Load
distribution, Wind.

61-28138

- I. Semenov, P. I.
- II. Sazonov, R. M.
- III. LC-1005
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Some Problems on the Rheology of a Concrete
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1958, pp 372-378.

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Corrosion of the Reinforcement in Autoclaved
Cellular Cinderete, by B. Alekshev, L. Rosenfel'd.

RUSSIAN, per, Beton i Zhelazobeton, No 10, 1958,
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C. S. I. R. O. 3447
UTS 60-15527

Sci

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

RUSSIAN, per, Beton I Zhelezobeton, No 10,
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C. S. I. R. O. 7448

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Sci

May 60

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