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Sci - Engineering
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Rupture of Concrete in Compression, by Albert Joisel,
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Water Sufficient to Form a Paste, pt 1, by Albert Nicol,
27 pp.

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62 pp.

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CSIRO No 4443

Sci - Min/Mat
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Reduced Scale Model of Rotary Kila at C.E.R.I.E.L.,
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Measurement of the Heat of Hydration of Portland
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Sci - Engr
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**Applications of Thermogravimetry to Cement
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1960, pp 19-122.**
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46 refs

Order from SLA \$5.60

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[p. T39-T48]; no. 538/539 [p. 183-189]; no. 540
[p. 233-243].

DESCRIPTORS: *Cements, *Gravimetric analysis,
*Thermochemistry, Calcium compounds, Slags,
Hydrates, Oxides, Balances, Dehydration, Carboniza-
tion, Carbon compounds, Hydrides, Dissociation,
Oxidation-reduction reactions, Aluminum compounds,
Silicates.

Thermo-gravimetry is becoming a current laboratory
(Materials, IT, v. 10, no. 11) (over)

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I. Longuet, P.

Office of Technical Services

Yesset, Michel.
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MORTAR AND CONCRETE: REPORT OF RESEARCH.**
[1963] 100p. (figs. omitted) 13 refs.
Order from SLA \$4. 60

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I. Yesset, M.

Trans. of *Bureau des Matériaux de Construction (et de
Travaux Publics. BORDORC) (PTRESE)* 1960, no. 538/539,
p. 169-182; no. 540, p. 215-231; no. 541, p. 251-276.

DESCRIPTORS: *Concrete, *Mortar, *Cements,
Construction materials, Deformation, Water, Storage,
Aging (Materials), Fracture (Mechanics).

The article deals with the conclusions arrived at as a
result of 8 years research carried out at the Hydraulic
Bieder Research Station, on shrinkage, swelling, and
fissureability. Mention is made of the general test pro-
cedure together with the precautionary measures to be
(Materials, TT, v. 10, no. 11) (over)

Office of Technical Services

LeGrand, J.
EQUATIONS OF MOTION OF A DUST PARTICLE
ENTRAINED BY A GAS STREAM: APPLICATION TO
INJECTOR NOZZLES IN CEMENT KILNS. [1961] 15p.
Order from SLA \$1.60 61-18848

Trans. of Rev[ue des] Mat[eriaux de] Constr[uction] et
de Travaux Publics. Edition C [France] 1960,
no. 342, p. 309-313.

DESCRIPTORS: *Gas flow. *Particles, Motion, Coal,
*Injectors, Nozzles. *Cement kilns. Differential
equations, Construction materials industry.

The equations for the movement of a dust grain are
derived from an analysis of the forces acting on it.
These equations are applied to the grains of pulver-
ized coal charged into cement kilns through two en-
(Materials, TT, v. 7, no. 3) (over)

61-18848

I. LeGrand, J.
II. Title: Application ...

Office of Technical Services

Burglen, L. and Longuet, P.

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DETERMINATION OF ALUMINUM** [1962] [12]p.

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Order from SLA \$1.60

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(et de Travaux Publics), Edition C (France) 1960,
no. 343, p. 327-331.

DESCRIPTORS: *Aluminum, Separation,
Determination.

A simple method for separating Al^{+++} is proposed.
With excess sodium hydroxide and carbonate Al^{+++}
becomes soluble aluminate, most other ions forming
insoluble hydroxides or carbonates. Addition of an
excess of potassium and calcium ions makes the
separation practically quantitative. The aluminate
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62-16841

I. Title: Complexometric
analysis

I. Burglen, L.

II. Longuet, P.

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The Calorimetry of Cements at the Centre of
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Sci - Physics

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Blondiau, L.
CONSIDERATIONS REGARDING THE LE CHATEL-
IER-ANSTETT TEST OF RESISTANCE TO CHEM-
ICAL ATTACK BY CALCIUM SULFATE. [1962] 15p
(1 illus. 1 fig. omitted).
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Travaux Publics. Edition C] (France) 1961, no. 546,
p. 189-200.

DESCRIPTORS: *Sea water, *Cements, *Construction
materials, *Concrete, *Materials, *Chemical re-
actions, Test methods, Test

1. Title: Le Chatelier-Anstett
test

1. Blondiau, L.

(MIR 1115)

Office of Technical Services

An Important Factor in the Life of Concrete
Exposed to Attack by Aggressive Waters, by
L. Blondiau.

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No 354, 555, ~~1961~~ 1961, 44 pp.

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Sci-Engineering
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Dept of Ind., 236,316
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<p>Halala, Abdul-Karim. SYSTEMATIC EXPERIMENTAL RESEARCH ON THE TENSILE STRENGTH OF CONCRETE. [1962] [21]p. (4 figs. omitted). Order from SIA \$2.60 63-10197</p> <p>Trans. of the Acad. des Sciences de l'Institut de France [Paris] (Série II, Mémoires) [France] 1967, no. 561, p. 128-137.</p> <p>DESCRIPTORS: *Concrete. Tensile properties. Re- inforced concrete. Tests. Reinforcing materials.</p> <p>The aim of the study was to raise the tensile strength of concrete. Computations take the potential tensile strength as zero, thus leading to specifying a greater amount of steel, particularly for RC and prestressed concrete, which is a heavy cost. Moreover, the cracks in concrete, due to inadequate tensile strength, lower the overall strength of the work, for water gets in and attacks the loading.</p>	<p>63-10197</p> <p>1. Title: Prestressed concrete 1. Halala, A.-K.</p> <p>(Engineering--Civil, TT, v. 10, no. 2)</p> <p>Office of Technical Services</p>
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Researches on Hexagonal Tetracalcium Aluminate
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Papadakis, M.
AUTOMATIC APPARATUS FOR THE MEASUREMENT
OF SPECIFIC SURFACE OF POWDERED MATERIALS
[1963] 6p
Order from SLA \$1.10 TT-63-20312

Trans. of Reus des Matériaux de Construction et de
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p. 79-81. (Abstract available).

DESCRIPTORS: Surface area. *Powders, Measure-
ment, Meters, Gas flow, Permeability.

A description is given of the operation of an automatic
apparatus for measuring the specific surface of
powders built on the principle of the Lee and Nuree
permeability apparatus. This apparatus, intended to
check mill operation, records every 4 or 5 minutes
the specific surface to within $\pm 50 \text{ cm}^2/\text{g}$. (Author)
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I. Papadakis, M.

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Report on Research with the Frost Resistance
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New Analytical Method for Cement Plant Use,
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A Simple Apparatus for Rapid Measurement of BET
Specific Surfaces, by R. Dallyon.
FRENCH, per, Revue des Matériaux de Construction
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Use of "Rhodocin" P.V.C. Emulsion Mortar Additives,
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**On the Problem of (P, Q) Analytic Functions of a
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Periodic and Almost-Periodic Solutions of Systems
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by A. Khalanay.

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Periodic Solutions of Linear Systems With a Lag,
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63 pp.
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Sci-Nucl Sci
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NASA TT F-65
National Aeronautics and Space Administration.
MODEL EXPERIMENTS ON ATOMIZATION OF LIQUIDS. (Modellversuche mit Flüssigkeitzerstäubung.)
Mintscho Popov. July 1961. 33p. OTS price, \$1.00
(NASA TECHNICAL TRANSLATION F-65. Translation from Revue de Mécanique Appliquée, v. 1, no. 1, 1956, p. 71-88 (Rumania).)

The purpose of this paper is to determine the similarity laws for the atomization of liquids with constant material properties and to verify them by comparison model experiments. The analyses show that the effect of the viscosity of the gas was very small and that approximate model experiments can be carried out without considering the ratio M of the gas to liquid viscosity, a condition that is difficult to satisfy. The derived and experimentally verified similarity laws permit the modeling of the atomization processes of liquids whereby considerable simplifications in experimental procedure and generalization of the experimental data are made possible.

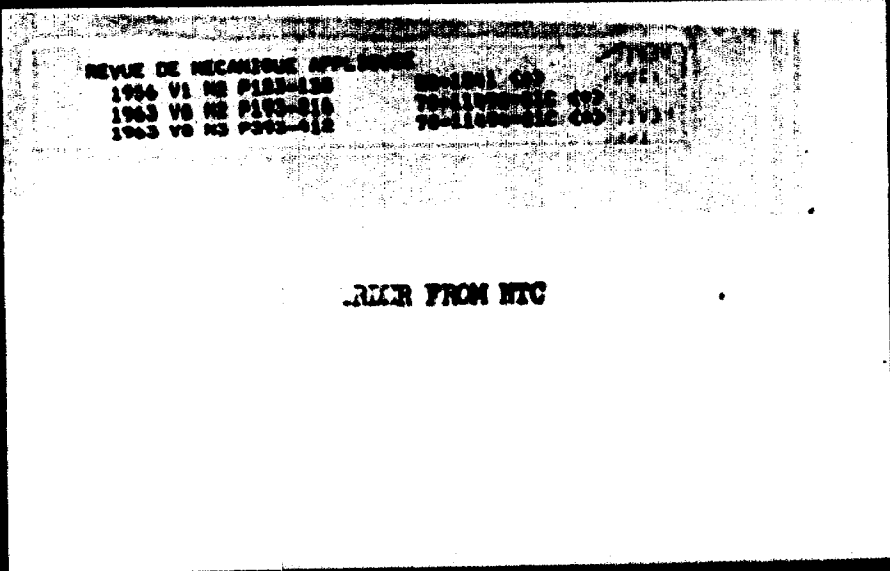
Copies obtainable from NASA, Washington

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(Initial NASA distribution:
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Three dimensional lubrication in the
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Revue de Mécanique Appliquée,
Vol VIII, No 2, 1963, pp 193-216. 9695083
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Sci - Aero
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Vibrations and Aero-Elastic Stability of Cylindrical
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Some Problems on Unsteady Flow of a Viscous
Electrically-Conducting Fluid in a Magnetic Field,
by V. P. Shidlovskiy,
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Contributions to the Study of the Radicular Palsies
of the Brachial Plexus, by A. Klumpke, 199 pp.

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Sci - Med

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On Two Cases of Acromegaly; Hypertrophy: Extraordinary, Con-Congenital, of the Upper, Lower and Cephalic Extremities, by Pierre Marie, 50 pp.

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Biol & Med Sci
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Venous Asystolism in Left Heart Hypertrophy, by
Bernheim, 18 pp.
FRENCH, par, Revue de Medecine, Vol XXX,
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Towards a Unitarian Theory of Human Behavior,
by Francisco T. Cantu Garza, 26 pp.

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Sci - Biol & Med
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Observations on the Accidental Exposure of a
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**The Large-Scale Cultivation of Unicellular
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Sci - Biol & Med Sci
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Sci - Med

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Modification of the Electrocardiogram of
Albino Rats Subjected to Tangential
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Behavior of Body Weight, Heart Rate and Arterial
Pressure in 1,000 Italian Pilots in Relation
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**XE Effect of Low Barometric Pressure and of
Some Tranquilizers on the Spontaneous Motorial
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The Use of the Bourdon-Wiersma Test in the
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FOR OFFICIAL USE ONLY FOR INTERNAL USE WITHIN
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P. Pialoux.
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Nov 71

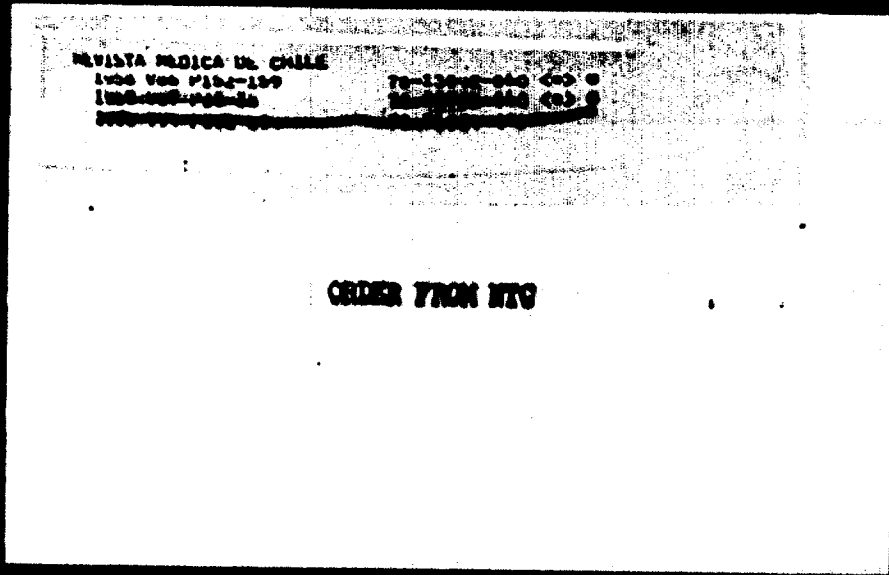
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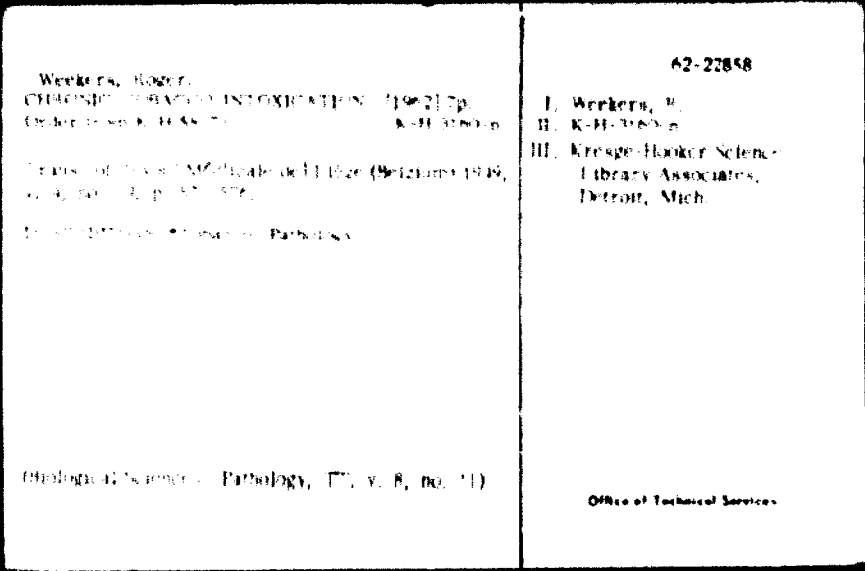
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