

Papers, Books and Articles on Concrete

SEPTEMBER 1949 - FEBRUARY 1950

PAPERS AND BOOKS *Drawn from C.A.C.A Library additions*

- MINISTRY OF WORKS. Painting new plaster and cement. Advisory Leaflet No. 1. pp. 4.
- MINISTRY OF WORKS. Cavity party wall construction for sound insulation. Advisory Leaflet No. 4. pp. 4.
- MINISTRY OF WORKS. Laying screeds on concrete floors as an underlay for floor coverings. Advisory Leaflet No. 5. pp. 6.
- MILLARD, R. S. Filling and sealing materials for joints in concrete roads. Road Note No. 7 of the Road Research Laboratory. 1949. *H.M. Stationery Office*. pp. 12.
- PARKER, T. W. and NURSE, R. W. Investigations on granulated blastfurnace slags for the manufacture of Portland blastfurnace cement. National Building Studies Technical Paper No. 3. Dept. of Scientific and Industrial Research. *H.M. Stationery Office*. 1949. pp. 20.
- RAO, K. L. Calculation design and testing of reinforced concrete. 1st edition. London. *Sir I. Pitman and Sons Ltd.* 1949. pp. xii 388.
- MORGAN, W. Elementary reinforced concrete design for students of architecture and building. 1st edition. London. *Edward Arnold and Co.* 1949. pp. viii, 303.
- CONLEY, J. E., WILSON, H., KLINEFELTER, T. A., etc. Production of lightweight concrete aggregates from clays, shales, slates and other materials. 1949. *United States Department of the Interior, Bureau of Mines, Washington, U.S.A.* pp. 121 and plates.
- BLOEM, D. L. Effect of certain variables on results of standard mortar test of fine aggregate. 1949. *National Ready Mixed Concrete Association, U.S.A.* pp. 8.
- BAKER, A. L. L. Reinforced concrete. 1st edition. London. *Concrete Publications Ltd.* 1949. pp. viii, 295.
- SA, PAULO. La résistance du béton à la compression et à la traction. (The strength of concrete in compression and tension.) 1949. *L'Instituto Nacional de Tecnologia, Rio de Janeiro, Brazil.* pp. 18.
- DEUTSCHEN BETON-VEREIN. Das "Preload" Verfahren für die Ausführung zylindrischer Gehäuse in Spannbeton. (The "Preload" system for the construction of cylindrical structures in prestressed concrete.) *Betonbau des Auslandes* No. 2. November 1949. pp. 2.
- ANGER, G. Zehnteilige Einflusslinien für durchlaufende Träger. (The influence lines for continuous beams at tenth span intervals.) 6th edition. Berlin. *Verlag von Wilhelm Ernst und Sohn.* 1949. pp. 221.
- Beton-Kalender, 1945-1950. Berlin. *Verlag von Wilhelm Ernst und Sohn.* pp. xi, 640.
- RIETLI, H. Lehrbuch für Betonbauer. (Text-book for the concrete constructor.) 1st edition. Berlin. *Verlag von Wilhelm Ernst und Sohn.* 1950. pp. 89.
- KLEINLOGEL, A., WALZ, K. and VIERHELLER, H. Einflüsse auf Beton und Stahlbeton. Die chemischen, mechanischen und sonstigen Einwirkungen auf Beton und Stahlbeton, sowie die Beeinflussung der zugehörigen Eigenschaften. (Influences on concrete and reinforced concrete. The chemical, mechanical and other influences on concrete and reinforced concrete and their influences on the properties of same.) Vol. 1. A-F. 5th edition. Berlin. *Verlag von Wilhelm Ernst und Sohn.* 1950. pp. viii, 96.
- HAAS, A. M. De betekenis van bijzondere betonconstructies voor de utiliteitsbouw. (The importance of special concrete construction in industrial building.) *Overdruk Voordrachten* No. 5. 1949. K.I.v.I. The Hague, Holland. pp. 35.
- HAAS, A. M. Ontwerp en berekening van paddestoelvoeren. (The design and construction of flat slab floors.) 1st edition, The Hague, Holland. *Martinus Nijhoff.* 1949. pp. xv, 245.
- WALRAVEN, A. J. VAN. Bescherming van betonconstructies. Chemische invloeden. (Protection of concrete structures against chemical influences.) 1949. *Verkoopassociatie Enci-Cemij, N.V., Amsterdam, Holland.* pp. 103.
- BAHRNER, V. Modern betongolvteknik. (Modern concrete floor technique.) *Svenska Cementforeningen, Malmö, Sweden.* November 1949. pp. 152.
- Betonghalblock och massiva betongblock. (Concrete hollow blocks and solid concrete blocks.) 1949. *Svenska Cementforeningen, Malmö, Sweden.* pp. 64.
- LUNDGREN, H. Cylindrical shells. Vol. 1. Cylindrical roofs. 1st edition. Copenhagen. *The Danish Technical Press, The Institution of Danish Civil Engineers.* 1949. pp. 360. Appendix pp. xix.

CAMPUS, F. Le béton précontraint—principes et propriétés, expériences, premières réalisations. (Pre-stressed concrete—principles and properties, experiments and early constructional work.) *University of Liège. Cours de constructions du Génie Civil No. 68.* 1949. pp. 16.

The following were issued by Valtion Teknillinen Tutkimuslaitos, Helsinki, Finland :

RAHTU, H. Sementtituotteittemme nykyisistä käyttömahdollisuuksista. (Present uses of our cement products.) pp. 12.

RAHTU, H. Rakeneratkaisun vaikutus rakentamis—ja pitokustannuksiin. (Effect of different structural types on building and maintenance costs.) pp. 29.

KUUSKOSKI, V. Betonin kimmokertoimista sekä eraista sen ominaisuuksista. (On the modulus of elasticity and some other properties of concrete.) pp. 29.

NYKANEN, A. Betonitoiden suoritus. (Concrete work.) pp. 41.

TAMMILEHTO, K. Betonitoissa esiintyvät yleisimmät virheellisyudet ja niiden syyt. (The most usual faults in concrete work and the reasons for them.) pp. 5.

TAMMILEHTO, K. Betonipintojen kasittely. (Treatment of concrete surfaces.) pp. 4.

NYKANEN, A. Betonin suhteitus. (Proportioning of concrete.) pp. 6.

The following publications were issued by the Institut Technique du Bâtiment et des Travaux Publics, Paris :

L'HERMITE, R., CHEFDEVILLE, J. and GRIEU, J. J. Nouvelle contribution à l'étude du retrait des ciments. (New contribution to the study of the shrinkage of cements.) *Annale No. 106.* December 1949 pp. 28.

ANON. Centenaire de l'invention du ciment armé. Commemoration organisée du 8 au 10 Novembre 1949. (Centenary of the invention of reinforced concrete. Commemoration organized from the 8th–10th November 1949.) *Annale No. 111.* December 1949. pp. 12.

CHAMBAUD, R. Théorie élasto-plastique de la flexion dans les poutres en béton armé. (Elasto-plastic theory of the bending of reinforced concrete beams.) *Annale No. 101.* November 1949. pp. 18.

BROCARD, J. Mesure de la granulométrie et de la surface spécifique des ciments. (Grading of cement particles for size and surface area.) *Annale No. 113.* January 1950. pp. 27.

L'HERMITE, R. La résistance du béton et sa mesure. Compléments. (The strength of concrete and its measurement.) *Annale No. 114.* January 1950. pp. 19.

The following were issued by the Building Research Station, Garston, Herts :

Plastering on insulating board. B.R.S. Digest No. 10. September 1949. pp. 5.

Damp-proof courses in parapet walls. B.R.S. Digest No. 11. October 1949. pp. 7.

The design of flat concrete roofs in relation to thermal effects. B.R.S. Digest No. 12. November. pp. 5.

Making good concrete. Note No. A.29. November 1949. pp. 10.

Lightweight concretes. Note No. E.161. October 1949. pp. 22.

The following were issued by the Cement and Concrete Association, London :

Priory Court. Flats at Countess Road, Walthamstow, for the Walthamstow Borough Council. October 1949. Bb. 6. pp. 20.

Concrete block walls. November 1949. Bb. 7. pp. 24.

Finishes for interior concrete floors. 1949. Bb. 10. pp. 8.

Vibration of concrete. November 1949. C.A.C.A. Library Record Ch. 9. pp. 54.

Air-entrained concrete. November 1949. C.A.C.A. Library Record Ch. 10. pp. 20.

Vermiculite as aggregate and insulator. November 1949. C.A.C.A. Library Record Ch. 11. pp. 10.

FRITSCH, J. Composition and suitability test of vibrated concrete. November 1949. C.A.C.A. Library Translation Cj. 11. pp. 12.

ANDREWS, W. P. Soil cement roads. 1949. Db. 4. pp. 8.

The combined milking parlour and dairy. October 1949. Farm construction leaflet No. 6. Fe. 6. pp. 4.

Catalogue of text and reference books in the Library of the Cement and Concrete Association. December 1949. 2nd edition. pp. 44.

Prestressed concrete bridge over railway at Lille, France. December 1949. Dg. 11. pp. 8.

Polygonal shell roof construction. January 1950. C.A.C.A. Library Record Ch. 12. pp. 4.

DUYSTER, H. C. The construction of aircraft hangars in prestressed concrete at the Melsbroek airfield near Brussels. February 1950. C.A.C.A. Library Translation No. 12. Cj. 12. pp. 31.

LAEMLEIN, A. and WICHERT, U. Prestressed concrete bridge at Bleibach. February 1950. C.A.C.A. Library Translation No. 13. Cj. 13. pp. 20.

SCHWARZ, H. Chemical analysis and the compound composition of Swiss Portland cements. February 1950. C.A.C.A. Library Translation No. 14. Cj. 14. pp. 9.

The following were issued by the Instytut Badawczy Budownictwa, Warsaw :

WIERZBICKI, W. Wyboczenie parabolicznego luku bezprzegubowego. (Buckling of rigid parabolic arches.) pp. 4.

KOŁODZIEJCZYK, S. Podstawy oceny pustaków i dziurawek pod względem cieplnym. (Fundamentals of testing the thermal properties of hollow blocks and hollow tiles.) pp. 12.

BORKOWSKI, M. P. Cienkoscienne konstrukcje wchrowate. (Doubly curved thin slab structures.) pp. 16.

The following were issued by the Instituto Tecnico de la Construcción, Madrid :

EYMAR, J. M. Corchas de hormigon armado (Reinforced concrete frames.) 1949. pp. 22, and 21 drawings.

TORROJA, E. Determinacion de esfuerzos en vigas simples y trianguladas. (Determination of the stresses in simple beams and triangulated structures.) 1949. pp. 45.

The following publications were received from the Portland Cement Association of America, Chicago :

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- LOVELAND, R. A. Batch mill performance as affected by the ratio of ball load to clinker charge. 15th August 1949. pp. 23.
- BOGUE, R. H. Portland cement. Research Paper No. 53. August 1949. pp. 21.
- EUBANK, W. R. and BOGUE, R. H. Studies on the flame photometer for the determination of Na_2O and K_2O in Portland cement. Research Paper No. 54. August 1949. pp. 10.
- HOUGHTON, D. L. Effect of Hydropel on the strength and durability of concrete. pp. 8.
- Concrete basements for homes. pp. 20.
- How to design and build low-cost concrete block joist floors for residential and other light-occupancy buildings. pp. 16.
- Lining irrigation canals. pp. 44.
- Modern developments in reinforced concrete, No. 24. Parking garage layouts. pp. 15.
- Soil-cement news, No. 31. August 1949. pp. 4.
- Concrete Highways and Public Improvements. Vol. 30, No. 3. Fall and Winter 1949. pp. 16.
- Handbook of concrete farm construction. pp. 72.
- Soil-cement roads construction handbook. 6th edition, 1949. pp. 93.

- Soil-cement news. No. 32. December 1949. pp. 4.
- Concrete masonry farm homes. pp. 12.
- Concrete for railways. Vol. 13. No. 2. pp. 16.
- BOGUE, R. H. Studies on the volume stability of Portland cement pastes. Portland Cement Association Fellowship Paper No. 55. December 1949. pp. 90.

The following papers were presented at the First Pacific Area National Meeting of the American Society for Testing Materials, San Francisco, October 10th-14th 1949 :

- DAVIS, R. E. Pozzolanic materials and their use in concretes. pp. 15.
- DAVIS, R. E., HANNA, W. C. and BROWN, E. H. Strength, volume changes, and sulfate resistance of mortars containing Portland-pozzolan cements. pp. 21.
- DAVIS, R. E. and KLEIN, A. The effect of the use of diatomite treated with air-entraining agents upon the properties of concrete. pp. 26.

The following were issued by The American Road Builders' Association, Washington:

- SHELBURNE, T. E. Virginia's experience with soil-cement. Technical Bulletin No. 156. pp. 10.
- MYERS, W. Soil-cement stabilization in Pennsylvania. pp. 1-4. and BUTLER, S. Construction and performance of soil-cement paving in Alexandria, Louisiana. pp. 5-9. Technical Bulletin No. 160.

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ANON. Hormigon precomprimido. Ensayo de un tipo de entrepiso en nuestro Campo Experimental. (Pre-stressed concrete. Test on a specimen at our experimental station.) 1949. No. 21. December. pp. 3-8.

ANON. Hormigones celulares. (Cellular concretes.) 1949. No. 21. December. pp. 17-19.

'Hormigon Elastico' *Buenos Aires*

ROS, M. Durmiente tipo "Zofra," cálculo estático. ("Zofra" type sleeper. Static calculations.) 1949. Vol 2, No. 2. July. pp. 10-18.

PIZZETTI, J. Teoría y práctica de la precompresión. (Theory and practice of prestressing.) 1949. Vol. 2, No. 2. July. pp. 19-28.

AUSTRALIA

'Commonwealth Engineer' *Melbourne*

WRIGHT, H. HUMPHREY. Design of rotary cement kilns. Part 1. Investigations of problems associated with kiln tyres and rollers—method of load calculations. 1949. Vol. 37, No. 5. December. pp. 185-189.

'Constructional Review' *Sydney*

TAYLOR, W. H. Foamed concrete. 1949. Vol. 22, No. 6. October. pp. 11-18, 44.

AUSTRIA

'Allgemeine Bau-Zeitung' *Vienna*

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HONIGMANN, ERICH J. M. Die Zweckmässigkeit von getrenntkornigem Zuschlagstoff. (The advantage of gap grading of aggregates.) 1949. Vol. 4, No. 168. 2nd November. pp. 5-6.

ANON. Von der englischen Betonforschung. (English concrete research.) 1949. Vol. 4, No. 169. 9th November. pp. 3-4.

ANON. Bauen in Winter. (Building in Winter.) 1949. Vol. 4, No. 173. 7th December. pp. 6-7.

ANON. Das Betonieren im Tiefbau und Hochbau. (Concreting in construction above and below ground.) 1949. Vol. 4, No. 173. 7th December. pp. 7-8.

- SALIGER, R. Hochwertige Bewehrungen des Stahlbetons. (High tensile steel reinforcement for concrete.) 1949. Vol. 4, No. 174. 14th December. p. 27.
- OBHLIDAL, W. Frosteinwirkung auf Beton. (The effect of frost on concrete.) 1949. Vol. 4, No. 174. 14th December. pp. 73-74.
- EHRENZWEIG, P. Zur Bemessung auf Biegung beanspruchter vorgespannter Betonkonstruktionen. (On the calculation of stresses in prestressed concrete construction.) 1950. Vol. 5. No. 184. 22nd February. pp. 3-5.
- 'Osterreichische Bauzeitschrift'** *Vienna*
- FORKERT, L. Ermittlung der Tragfähigkeit von Eisenbetonbalken bei Biegebeanspruchung nach beliebig vielen Richtungen. (Calculation of strength and stresses of reinforced concrete beams in any required direction.) 1950. Vol. 5. No. 1. January. pp. 10-11.
- TOUSSAINT, E. Schalungsdruck bei grossen Betonkörpern. (Pressure of formwork in connexion with large concrete units.) 1950. Vol. 5, No. 1. January. pp. 11-13.
- BELGIUM**
- 'Annales des Travaux Publics de Belgique'**
Brussels
- L'HERMITE, R. Nouvelles recherches sur le béton. (New research on concrete.) 1949. Vol. 102, No. 5. October. pp. 481-512.
- SOETE, W., and VANCROMBRUGGE, R. La résistance à la fatigue ondulée des fils utilisés en béton précontraint. (The resistance to oscillating stress of wires used in prestressed concrete.) 1949. Vol. 102, No. 5. October. pp. 513-534.
- MANOUVRIER, F. Etude des bétons mis en oeuvre lors de la construction de pont route en arcs au-dessus de la Dendre et des voies ferrées Bruxelles-Lille et Leuze-Renaix, à Leuze. (Study of the concrete placed during the construction of the road bridge over the Dendre and the railways from Brussels to Lille and Leuze to Renaix, at Leuze.) 1949. Vol. 102, No. 5. October. pp. 565-611.
- PADUART, A. Considérations sur le calcul du béton armé à la flexion simple. (Considerations on the calculation of the reinforced concrete in simple bending.) 1949. Vol. 102, No. 6. December. pp. 649-686.
- RIESSAUW, F., DOOMS, J., VANDEPITTE, D., VAN CAUWENBERGE, M. Le nouveau pont en béton précontraint de la rue De Smet sur le Canal de Raccordement à Gand. (The new prestressed concrete bridge in the rue De Smet over the Canal de Raccordement at Ghent.) 1949. Vol. 102, No. 6. December. pp. 687-720.
- MANOUVRIER, F. Essais comparatifs de bétons routiers. (Comparative tests of concretes for roads.) 1949. Vol. 102, No. 6. December. pp. 721-744.
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- FERON, R. Propriétés hydrauliques des ciments. (Hydraulic properties of cements.) 1949. Vol. 14, No. 8. November. pp. 199-206.
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- CZECHOSLOVAKIA**
- 'Stavivo'** *Brno*
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- DENMARK**
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- INGERSLEV, E. Temperature stresses in reinforced concrete walls. (In English.) 1949. Vol. 1, No. 3. December. pp. 89-92.
- 'Beton Teknik'** *Copenhagen*
- RAVN, H. H. Betonfliser som cyklestibelaegning. (Concrete flags as cycle-path surfacing.) 1949. Vol. 15, No. 4. December. pp. 93-104.
- RASTRUP, ERIK. Om betydningen af hurtig tildaekning af beton stobt om vinteren. (The significance of early protection of concrete cast in the winter.) 1950. Vol. 59, No. 2. 14th January. pp. 60-62.
- EWALDSEN, H. Kaelderydermure af geobeton. (External cellar walls of "geo-concrete.") 1950. Vol. 59, No. 6. 11th February. pp. 136-138.
- NERENST, P. Valg af cement ved betonstobning om vinteren. (Choice of cement for casting concrete in the winter.) 1950. Vol. 59, No. 7. 18th February. pp. 161-164.
- 'Ingeniøren'** *Copenhagen*
- PLUM, NIELS M. Bor vi anvende v/e-forholder eller c/v-forholder. (Water/cement ratio versus cement/water ratio.) 1949. Vol. 58, No. 37. 10th September. pp. 742-747.
- RING, NIELS C. Betonlaboratoriet i Skokie, Chicago. (Concrete laboratory at Skokie, Chicago.) 1949. Vol. 58, No. 38. 17th September. pp. 762-768.
- HOST-MADSEN, M. Konstruktioner af startbaner til flyvepladser. Fra graesbaner til forspaendt beton. (Construction of aerodrome runways. From grass tracks to prestressed concrete.) 1949. Vol. 58, No. 46. 12th November. pp. 913-920.
- GLARBO, O. Uarmerede betonvaegges baereevne. (Load-bearing capacity of unreinforced concrete walls.) 1949. Vol. 58, No. 48. 26th November. pp. 963-964.
- KNUDSEN, K. B. Er dilationsfuger i betonveje nødvendige? (Are expansion joints in concrete roads necessary?) 1949. Vol. 58, No. 49. 3rd December. pp. 981-982.
- RAMBOLL, B. J. Varmeisolering af flade betonage. (Heat insulation of flat concrete structures.) 1949. Vol. 58, No. 50. 10th December. pp. 995-999, 1006.
- JENSEN, E. Varmespaendinger i jernbetonskorstene. (Heat stresses in reinforced concrete blocks.) 1949. Vol. 58, No. 52. 24th December. pp. 1035-1040.
- FRANCE**
- 'Cahiers du Bâtiment'** *Paris*
- LECLERC, R. M. and RINCK, E. Les vermiculites. Connaissances actuelles et possibilités d'applications à l'isolement et à la prévention de l'incendie dans les constructions. (Vermiculites. Present-day knowledge and the possibility of their application in insulation

- and the prevention of fire in buildings.) 1949. Cahier 50. July. pp. 1-15.
- GENDRE, P. Composition des bétons. (Concrete components.) 1949. Cahier 52. July. pp. 1-9.
- CHEFDEVILLE, J., and DAWANCE, G. Utilisation des extensomètres à fil résistant pour la mesure des déformations dans le béton et le béton armé. (Use of a strain gauge for measuring deformation in concrete and reinforced concrete.) 1949. Cahier 52. July. pp. 10-22.
- COINTE, M. Les panneaux fibragglos. (Cement agglomerated fibre boards.) 1949. Cahier 61. October. pp. 1-21.
- 'Le Génie Civil' Paris**
- E. L. L'emploi des laitiers de haut fourneau éventés à la fabrication de liants hydrauliques. (The use of blastfurnace slag in the manufacture of hydraulic binders.) 1949. Vol. 126, No. 19. 1st October. pp. 365-367.
- 'Chimie et Industrie' Paris**
- LAFUMA, H. La fabrication des liants hydrauliques dans ses rapports avec l'évolution de l'industrie chimique. (The manufacture of hydraulic binders, with reference to the development of the chemical industry.) 1949. Vol. 62, No. 3. September. pp. 249-253.
- 'Revue des Matériaux de Construction et de Travaux Publics, Edition C' Paris**
- JOISEL, A. La granulométrie du mortier normal—étude comparative des mortiers normaux utilisés dans les principales nations. (The grading of standard mortar—comparative study of standard mortars used in various countries.)
Part 2. Etude des mortiers normaux. (Study of normal mortars.) 1949. No. 408. September. pp. 295-303.
- LANGAVANT, J. CLERET DE. Considérations théoriques sur la nature du laitier de cimenterie. (Theoretical studies on the nature of slag used for cement making.)
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- CHASSEVENT, L. Etude des variations de volume des plâtres pendant et après leur prise. (Study of the variations in volume of plasters during and after setting.)
Part 4. 1949. No. 408. September. pp. 304-308.
- DICHARRY, R. Le transport du ciment en vrac. (The transport of cement in bulk.) 1949. No. 409. October. pp. 335-343.
- JASPERS, MICHEL J. M. L'efficiencé thermique du four rotatif à ciment. (The thermal efficiency of the rotary cement kiln.)
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Part 2. 1949. No. 410. November. pp. 373-378.
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- MANSFIELD, G. A. L'étuvage, un problème de thermodynamique. (Steam curing, a thermo-dynamic problem.) 1949. No. 409. October. pp. 359-361.
- NON. Transport des pulvérulents par containers. (Transport of powders in containers.) 1949. No. 409. October. p. 362.
- NON. Le transport pneumatique. Kennedy. (Pneumatic transport. Kennedy.) 1949. No. 409. October. p. 363.
- CANDLOT, C. L'industrie du ciment au Japon. (The cement industry in Japan.) 1949. No. 410. November. pp. 386-387.
- MEYERS, S. L. Effets du gaz carbonique sur le ciment hydraté et le béton. (Effects of carbon dioxide on hydrated cement and concrete.) 1949. No. 410. November. pp. 387-390.
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- LAN, R. I. E. La fabrication des agglomérés de pouzzolane. (Considérations sur une expérience en cours.) (The manufacture of pozzolana concretes—Notes on a current experiment.) 1949. No. 410. November. pp. 396-398.
- SCHWOB, Y. Les carbonates rhomboédriques simples et complexes de calcium, magnésium et fer. Contribution à l'étude de leur dissociation thermique. (Simple and complex rhombohedral carbonates of calcium, magnesium and iron. Contribution to the study of their thermal dissociation.) 1949. No. 411. December. pp. 409-420.
- REBUT, P. Etude sur les règles pratiques de fabrication des agglomérés par vibration. (Study of practical rules for the manufacture of concretes by vibration.) 1949. No. 411. December. pp. 437-440.
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- CROZEL, M. Emploi des bétons réfractaires en fumisterie. (The use of refractory concretes in heating engineering.)
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' Bâtir ' Paris

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