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DEPARTMENT OF COMMERCE
BUREAU OF STANDARDS

Letter
Circular
LC 145

Washington, D.C.

(Revised to June 30, 1926)

PUBLICATIONS RELATING TO GYPSUM

- Durability of Stucco and Plaster Construction, by R. J. Wig, J. C. Pearson and W. E. Emley, B. of S. Technologic Paper No. 70, (2) 156.
- Measurement of Time of Set of Calcined Gypsum, by W. E. Emley, Trans. Amer. Cer. Soc., 1917, p. 573, (4).
- Some Factors Influencing the Time of Set of Calcined Gypsum, by F. F. Householder, Jour. Amer. Cer. Soc., 1918, p. 578, (4).
- Results of Testing Gypsum Products, by W. E. Emley and C. F. Faxon, Jour. Amer. Cer. Soc., 1920, p. 984, (4).
- Gypsum: Definitions and Specifications, B. of S. Cir. No. 108, (2), 56.
- Colored Wall Plaster, by W. E. Emley and C. F. Faxon, B. of S. Technologic Paper No. 181, (2), 56; Rock Products, June 4, 1921, (4).
- Normal Consistency of Sanded Gypsum Plaster, by W. E. Emley and C. F. Faxon, Jour. Amer. Ceramic Society, 1921, p. 152, (4).
- Effect of Fineness on Other Properties of Calcined Gypsum, by W. E. Emley and F. C. Welch, Jour. Amer. Cer. Soc., 1921, p. 301, (4).
- Plastic Gypsum Plaster, by W. E. Emley, U. S. Pat. No. 1392574; Chem. and Met. Eng. Apr. 27, 1921, (4); Rock Products, May 7, 1921, (4); Eng. News-Record, June 16, 1921, (4); Eng. and Cont., June 22, 1921, (4).
- Specifications for Color of Gypsum Plaster, by W. E. Emley and C. F. Faxon, Chem. and Met. Eng., June 15, 1921, (4).
- Tests of Gypsum Plaster Board and Wall Board, by J. M. Porter, Proc. Amer. Soc. for Testing Materials, 1922, pt. I, p. 358, (4).
- Volumetric Changes of Gypsum, by J. M. Porter, Proc. Amer. Soc. for Testing Materials, 1923, pt. I, p. 244, (4).
- Analysis of Gypsum and Gypsum Products, by F. C. Welch, Jour. Ind. and Eng. Chem., 1924, p. 238, (1), (4).
- Effects of Accelerators and Retarders on Calcined Gypsum, by F. C. Welch, Jour. Amer. Cer. Soc., Nov. 1923, p. 1197, (1), (4).
- Wall Plaster: Its Ingredients, Preparation and Properties, B. of S. Circular No. 151, (2), 156.
- Effect of Tennessee Ball Clay upon the Tensile Strength of Gypsum, by J. M. Porter, Rock Products, Feb. 23, 1924, p. 47, (4).
- Effect of Composition on Some Properties of Gypsum Plasters, by F. C. Welch, Rock Products, Nov. 15, 1924, p. 27, (4).
- Properties of Gypsum Tile, by J. M. Porter, Proceed. Amer. Soc. for Testing Materials, pt. I, 1924, (4).
- Getting Rid of Efflorescence on Gypsum Plaster, by F. C. Welch, Chemical and Metallurgical Engineering, Aug. 18, 1924, Vol. 31, No. 7, (4).
- Sands for Lime, Gypsum and Cement Plasters, by H. V. Johnson, Rock Products, March 21, 1925, p. 54 (4).

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- The Manufacture of Gypsum Products, by J. M. Porter, B. of S. Circular No. 281, (2), 30¢.
- U. S. Government Master Specification for Gypsum Plasters, Bureau of Standards Circular No. 205, (2), 5¢.
- U. S. Government Master Specification for Gypsum Wall Board, Bureau of Standards Circular No. 211, (2), 5¢.
- U. S. Government Master Specification for Gypsum Plaster Board, Bureau of Standards Circular No. 210, (2), 5¢.
- U. S. Government Master Specification for Calcined Gypsum, Bureau of Standards Circular No. 206, (2), 5¢.
- Some Modern Gypsum Products, by J. M. Porter, Chemical and Metallurgical Engineering, May, 1925, p. 499, (4).
- U. S. Government Master Specification for Lathing and Plastering, in preparation.
- The Adhesion of Gypsum Plaster to Various Backings, by J. P. C. Peter, American Architect, September 9, 1925, p. 227, (1).
- The Effect of Stirring on the Time of Set of Gypsum Plaster, by L. E. Smith, Rock Products, August 22, 1925. (4).
- Effect of Storage of Calcined Gypsum on Linear Expansion of Gypsum Plaster, by L. E. Smith, Rock Products, October 3, 1925, (4).
- U. S. Government Master Specification for Gypsum Partition Tile, in preparation. Cement, Mill and Quarry,
- The Adhesion of Gypsum Plaster to Concrete, /October 20, 1925, p. 32, (4).
- Recent Work of the Lime, Gypsum and Sand-Lime Brick Section of the Bureau of Standards, Rock Products, October 31, 1925, p. 60, (4).
- Effect of the Process of Manufacture on the Properties of Calcined Gypsum, Rock Products, May 1, 1926, p. 56, (1).

- (1) Available for distribution upon request by Bureau of Standards.
- (2) For sale by Superintendent of Documents, Government Printing Office, Washington, D.C., at prices given.
- (3) Supply exhausted. May be consulted in certain libraries listed in July 1, 1925, Supplement to Bureau of Standards Circular No. 24.
- (4) May be obtained from office of society or association by which published or publishers of journal in which article appeared.

The first part of the paper is devoted to a discussion of the general principles of the method of least squares. It is shown that the method is based on the assumption that the errors are normally distributed and that the observations are independent. The method is then applied to the problem of fitting a straight line to a set of data. The results are compared with those obtained by the method of moments.

In the second part of the paper, the method of least squares is applied to the problem of fitting a curve to a set of data. It is shown that the method is based on the assumption that the errors are normally distributed and that the observations are independent. The results are compared with those obtained by the method of moments.

The third part of the paper is devoted to a discussion of the theory of the method of least squares. It is shown that the method is based on the assumption that the errors are normally distributed and that the observations are independent.

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