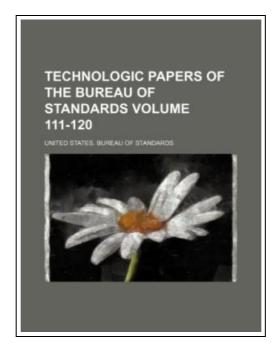
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Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand ******This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1918 Excerpt: . the more important, due both to the greater change per unit of cristobalite present and also to the larger percentage of cristobalite usually present in commercial brick. In underburned brick the presence of untransformed quartz may also cause a slight volume increase at 575 C on heating. It is between atmospheric temperature and 3000 C that practically all spalling takes place. The measurement of these volume changes below 3000 C offers an interesting problem for future work, as does also the development of a spalling test. Some work has been contemplated on the measurement of these tridymite and cristobalite expansions in commercial silica brick. It should, if conducted with moderate accuracy, be a fair guide to the amounts of tridymite and cristobalite contained by the samples under test. Incidentally, it would show how the exterior volume expansions at these temperatures vary with the different brands of brick and varieties of quartzite. It might also be used to determine at what temperature between 22b to 300 0 C cristobalite formed in silica brick is most likely to be inverted and cause this volume change. For the cristobalite inversion it would be necessary to hold a fairly constant temperature (approximately i00 C variation) for about three hours, and similarly it is probable that the tridymite changes would require approximately the same time. A comparatively simple and inexpensive apparatus, which might answer this purpose and which is here suggested, is shown in Fig. 41. With care it is...



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