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Forgotten Books, 2017. Hardback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from Determination of Cellulose in Rubber Goods In our opinion the method of Hillen could not be acceptable because of the presence of rubber, substitutes, and other organic material during the immersion in copper-ammonia. It is not improbable that precipitates are obtained, when the sulphuric acid is added, that are other than cellulose. But what is more important, it is an uncertain thing to attempt to remove cellulose from a rubber compound with which it has been intimately mixed by a process which can be likened unto extraction. Therefore it was decided that the rubber must first be removed before any attempt could be made to determine the cellulose by any procedure. The most convenient way to accomplish the removal of rubber from the sample was found to be through the use of cresol. Early experimentation with cresol (b. P. 198 C) had indicated that it would effect this solution at 160 to 185 C in from 2 to 4 hours, depending on the coefficient of vulcanization, and that the resulting solution after it had been diluted with petroleum ether (b. P. About 45 to 50 C) would allow the fillers to settle out in a very short length of time, after which it could be filtered easily and rapidly. Samples of cotton, free from moisture, were immersed in cresol and allowed to remain for the maximum period of 4 hours at 185 C The solution was diluted with petroleum ether and filtered. The weight of the washed and dried cellulose after this treatment was identical with the weight of sample taken. The use of cresol was therefore adopted to remove the rubber as the first step in the...

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