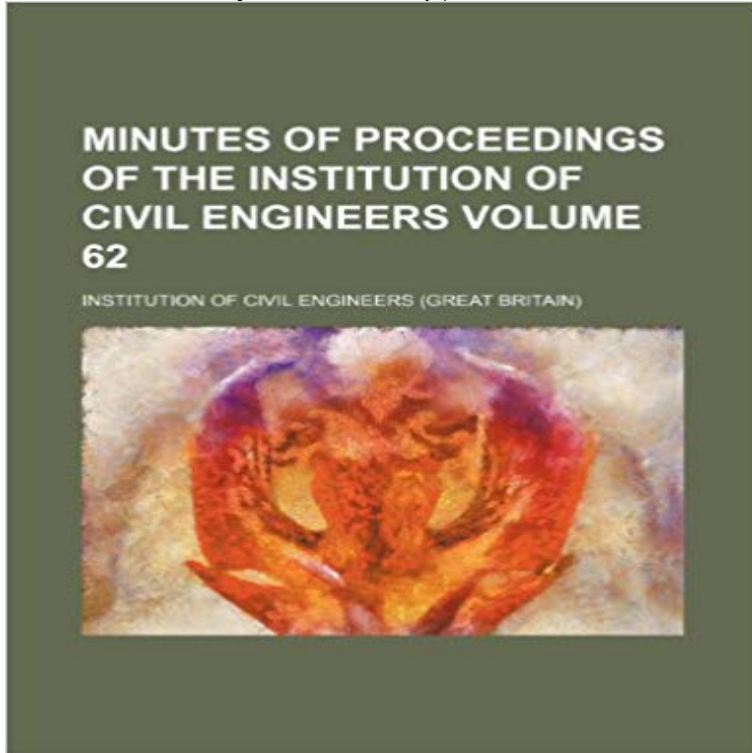


Minutes of proceedings of the Institution of Civil Engineers Volume 62



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. 1880 Excerpt: ...had done much to extend the knowledge of cement, and the results of their experiments had been accepted, not only by the great majority of German cement manufacturers, but also by the engineers and architects of that country. Herr Studt sent a description and drawing of his cement testing apparatus, which had also been used for testing leather, paper and cotton. The briquettes had a breaking section of 5 square centimetres, and were fixed in the clips K K, Fig. 1. One of these clips was hinged to the bed-plate of the apparatus; the other was jointed to B. The adjusting screw S raised or lowered B as required. The tension to which the briquette was subjected was measured by the point of the adjusting screw compressing glycerine in a vessel. The pressure communicated to the liquid was registered on a gauge indicating the number of kilogrammes per square centimetre of the area broken. The dial of the pressuregauge was furnished with a maximum pointer, which should be brought back to zero after each experiment. The apparatus was said to work accurately, extensive series of experiments having been conducted with it.1 Major-General Porter had expressed a doubt whether cement so underclayed as to merit the designation of being treacherous when used fresh, could be rendered absolutely safe by exposure to the air. On this point General Scott was certain that it was possible, with a substance containing enough clay to merit the designation of Portland cement, to destroy all the elements of danger, as stated in the Paper. In fact he had made experiments with most satisfactory results in exposing Portland

cement of the above character to the action of steam, which rapidly eliminated all th...

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