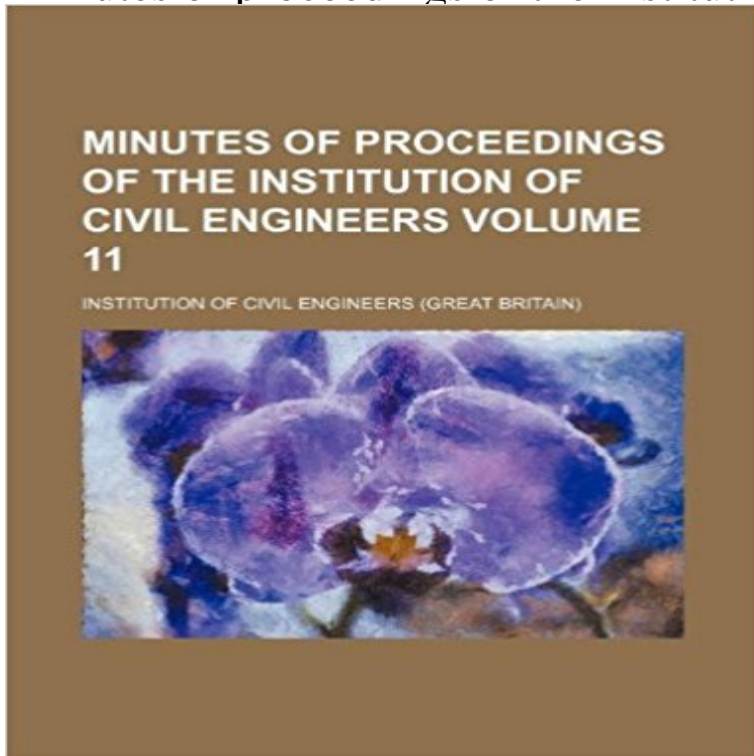


# Minutes of proceedings of the Institution of Civil Engineers Volume 11



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. 1852 Excerpt: ...world was indebted, for the valuable introduction of the fishing-plates with the suspended joint, and all who had noticed the even surface of the rails and the smoothness of the travelling, on the portions of the lines so treated, must admit the great advantages of the system. Mr. P. W. Barlow would correct an impression which appeared to obtain, as to the extent of fracture of the cast-iron bearing-plates on his system; now the fact was, that the amount of breakage did not exceed that of the cast-iron chairs, on railways of the ordinary construction. He was convinced, that under all circumstances, the cast-iron bearing-plates could be economically employed, and this opinion was confirmed by the offer of Mr. Taylor, the contractor, to maintain and renew, for twenty years, that portion of the South Eastern line, laid with cast-iron bearing-plates, for ?100 per mile per annum. It must be borne in mind, that the portion of line alluded to, was that on the Greenwich and the main line, where, from the confluence of so many trains, the traffic was nearly three times as great as the average of that of the other portions of the railway; and also, that the rails had been more than ordinarily degraded, from the employment of bad ballast. In a Report he had recently made, on Permanent Way, he had given the details and the results of some extended experiments, having for object, to ascertain whether the weights of iron required to obtain the necessary bearing surface, and, at the same time, to insure against fracture, would make the cost greater than the value of the increased durability of the material; and without troubling the meeting by a recapitulation of the particulars of the Report, to which he

would beg to refer them, he would confidently state...

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