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A Treatise on the Method of Least Squares; Or, the Application of the Theory of Probabilities in the Combination of Observations

By William Chauvenet

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. 1868 Excerpt: .of them by a constant, the number of independent equations is, in fact, one less than that of the unknown quantities, and the problem becomes indeterminate. This difficulty does not arise from the method by which the normal equations are formed, but from the nature of the given equations of condition. In any such case, additional observations are necessary, for which the coefficients have such varied values as to lead to independent equations. Even when two equations cannot be reduced precisely to a single one by the introduction of a constant factor, if they can be made very nearly identical, the problem is still practically indeterminate. The indetermination will become evident in the actual elimination in practice when any one of the unknown quantities comes out with so small a coefficient that small errors in the observations would greatly change this coefficient. (See Art. 52.) Vol...



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