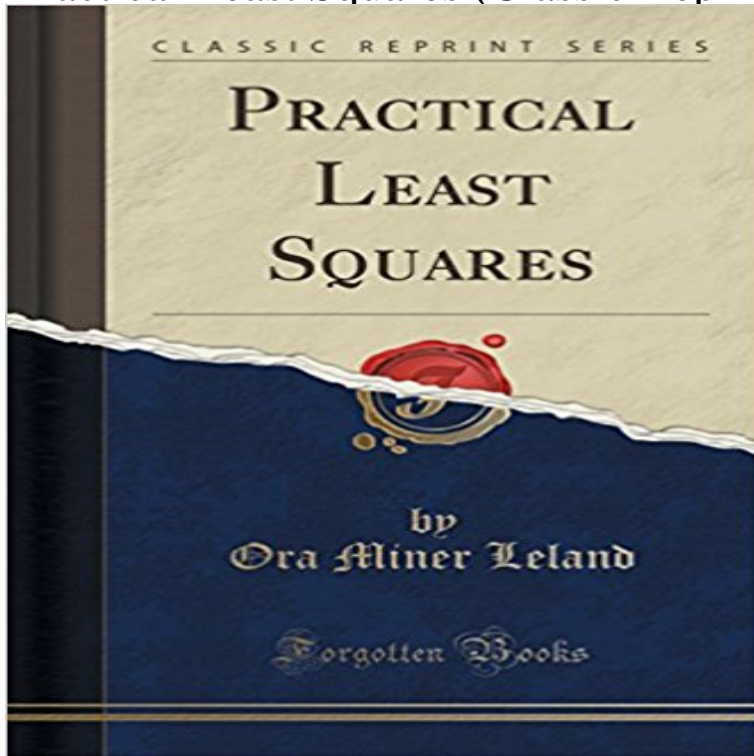


Practical Least Squares (Classic Reprint)



Excerpt from Practical Least Squares This book results from the authors experience in teaching the subject of Least Squares and the Adjustment of Observations to classes of civil engineering students at Cornell University. As the time allotted to this work became more and more limited, the available textbooks became less adaptable to the scope of the course. To meet this condition, a series of chapters entitled Notes on the Adjustment of Observations was prepared and used as a text. With these notes as a basis, this book has been written. It is designed particularly for use in short courses of instruction and by engineers and scientists in connection with their private practice. It will not replace the more elaborate treatises on the subject but the author hopes that it will introduce the student directly to the simpler methods of solving the ordinary problems in adjustment. The plan of the work is essentially practical. After a general introduction devoted to a consideration of the character and occurrence of errors, the adjustment of direct, indirect, and conditioned observations is taken up in detail and illustrated by numerical applications to triangulation, leveling, astronomy, and the derivation of empirical formulas. Not until after this practical treatment of the determination of the best values of the unknown quantities is the precision of observations discussed, together with the computation of the mean square and probable errors of the observations and results. Finally, the principles of probability and the analytical derivation of the Law of Error are given in appendices. The utility of this arrangement should be obvious. By far the greater number of applications of Least Squares do not require a consideration of the precision of the results nor a knowledge of the mean square or probable errors. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic

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