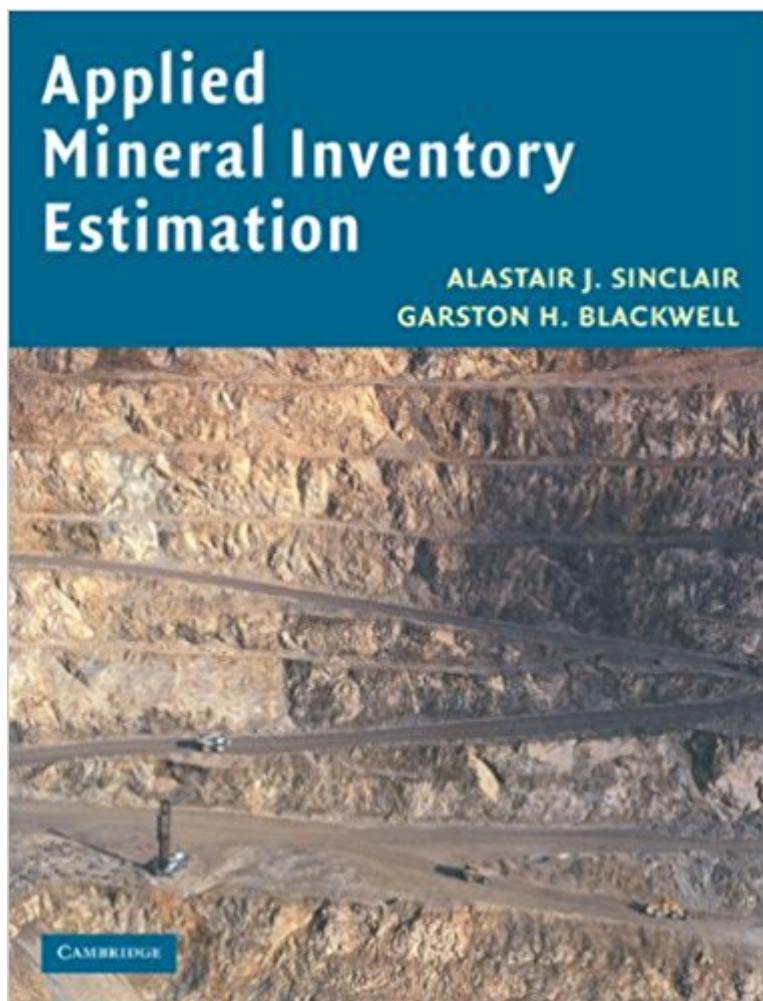


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# Applied Mineral Inventory Estimation



## **Synopsis**

Applied Mineral Inventory Estimation presents a comprehensive applied approach to the estimation of mineral resources/reserves with particular emphasis on the geological basis of such estimations, the need for and maintenance of a high quality assay data base, the practical use of comprehensive exploratory data evaluation, and the importance of a comprehensive geostatistical approach to the estimation methodology. Practical problems and real data are used throughout as illustrations. Each chapter ends with a summary of practical concerns, a number of exercises and a short list of references for supplementary study. This textbook is suitable for any university or mining school that offers senior undergraduate and graduate student courses on mineral resource/reserve estimation.

## **Book Information**

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## **Customer Reviews**

"The book will find wide use as a reference in exploration and mining companies, and as a text in professional short courses. Geologists working on exploration projects that have moved beyond discovery drilling will want access to this book. It also should find wide use in mine offices, to be consulted by geologists and engineers dealing with mine planning and ore quality problems. It will also serve as a useful guide for the selection and evaluation of consulting specialists." Economic Geology

This textbook presents an applied approach to the estimation of mineral resources/reserves with particular emphasis on the geological basis of such estimations, the need for and maintenance of a

high quality assay data base, the practical use of a comprehensive exploratory data evaluation, and the importance of a comprehensive geostatistical approach to the estimation methodology. The textbook is suitable for any university or mining school that offers courses on mineral resource/reserve estimation. It will also be valuable for professional mining and geological engineers and geologists working with mineral exploration companies.

If you have anything to do with resource estimation, this is a very good book to have. Covers in enough detail each sub topic required to produce as reliable as possible the estimation parameters. Recommended. One of the other reviewers just likes to through stones. The methods are industry accepted.

Very good book, good combination between theory and practice, and good explanation & examples. I hate the super theory-documents, so this book for me is excellent.

This is an excellent book covering all aspects of the subject including data collection, verification, and analysis along with geostatistics. Good sections on making sure that the statistically derived answers make geologic sense, a most important aspect. Anyone in the mineral inventory estimation field should get a copy.

Between 1965 and 1970 Professor Georges Matheron's most gifted disciples stripped the variance off the distance-weighted and called what was left a kriged estimate to honor D G Krige. Infinite sets of kriged estimates and zero kriging variances are but aberrations in applied statistics.

This textbook is based on the premise that the true variance of the distance-weighted average can be replaced with the pseudo kriging variance of a set of degrees-of-freedom and variance-deprived functionally dependent kriged estimates. The distance-weighted average was reborn as an honorific kriged estimate but that could not possibly make its variance vanish without a trace. Just another textbook were the requirement of functional independence and the concept of degrees of freedom are ignored with impunity.

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