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## Advances in X-Ray Analysis: Volume 17: Proceedings of the Twenty-Second Annual Conference on Applications of X-Ray Analysis Held in Denver, August 22-24, 1973

By -

Springer. Paperback. Book Condition: New. Paperback. 596 pages. Dimensions: 10.0in. x 7.0in. x 1.4in. The successful application of x-r diffraction techniques and x-r spectrometry depends in large measure on the availability of dependable standards and reference data. The preparation of such standards in the fields of metallurgy, geology, life sciences, and other disciplines is both costly and time consuming. As a result, the necessary standards for effective utilization of existing instrumentation are often not available. One of the purposes of the invited papers in this 22nd Annual Denver X-Ray Conference was to review the status of programs to prepare such standards and reference data. Simultaneously, it seemed appropriate to examine the role of sampling both in terms of standards and samples to be analyzed. The first section of the invited papers focuses on the standards and reference data problems. In addition, many of the contributed papers offer information on this theme. The second topic in the invited papers considers the problem of sampling. If we recognize that analyses are conducted on samples which vary in size from several grams to a few micrograms or less, the magnitude of the random and systematic error components of sampling on the quality...


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