

BOOK REVIEW

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A Review of "Methodology for Analytical Toxicology"

REFERENCE: Sunshine, I., *Methodology for Analytical Toxicology*, The Chemical Rubber Co., Cleveland, Ohio, 1975, 478 pages, \$28.50.

This volume represents a revision and expansion of the 1971 edition of the *CRC Manual of Analytical Toxicology*. The introductory section has been expanded to include information regarding specimen collection, patient history, and interpretation of the analytical result. The second section presents detailed descriptions of approximately 100 different methods, with 35 to 40 of the methods being new to this edition. The complexity of the methods range from relatively simple qualitative tests to more sophisticated methods requiring gas chromatography with prior derivatization, and in most cases more than one method is listed for each substance. The third section contains some useful information on enzyme and radioimmunosassays, heavy metal detection, gas and thin-layer chromatography, and ultraviolet spectrophotometry.

The methods, which generally represent the state of the art, are well written with appropriate sections containing the principle, reagents and procedures, precision and accuracy, interpretation of results, and interfering substances. Literature references are included with each method. Specific methods are easily located, and the considerable information within each method is well delineated.

The major improvements in this volume, compared to the earlier version, include the additional methods, better layout and organization, a more durable binding, and the additional useful information included in the third section.

This volume is recommended to toxicologists who require a reference and teaching source for specific information on methods or need general information on related laboratory techniques. The volume should be a useful addition to the toxicologists' library.

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