



## Undergraduate Instrumental Analysis, Sixth Edition

By James W. Robinson, Eileen M. Skelly Frame, George M. Frame II

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Completely rewritten, revised, and updated, this Sixth Edition reflects the latest technologies and applications in spectroscopy, mass spectrometry, and chromatography. It illustrates practices and methods specific to each major chemical analytical technique while showcasing innovations and trends currently impacting the field.

Many of the chapters have been individually reviewed by teaching professors and include descriptions of the fundamental principles underlying each technique, demonstrations of the instrumentation, and new problem sets and suggested experiments appropriate to the topic.

About the authors...

JAMES W. ROBINSON is Professor Emeritus of Chemistry, Louisiana State University, Baton Rouge. A Fellow of the Royal Chemical Society, he is the author of over 200 professional papers and book chapters and several books including Atomic Absorption Spectroscopy and Atomic Spectroscopy. He was Executive Editor of Spectroscopy Letters and the Journal of Environmental Science and Health (both titles, Marcel Dekker, Inc.) and the Handbook of Spectroscopy and the Practical Handbook of Spectroscopy (both titles, CRC Press). He received the B.Sc. (1949), Ph.D. (1952), and D.Sc. (1978) degrees from the University of Birmingham, England.

EILEEN M. SKELLY FRAME recently was Clinical Assistant Professor and Visiting Research Professor, Rensselaer Polytechnic Institute, Troy, New York. Dr. Skelly Frame has extensive practical experience in the use of instrumental analysis to characterize a wide variety of substances, from biological samples and cosmetics to high temperature superconductors, polymers, metals, and alloys. Her industrial career includes supervisory roles at GE Corporate Research and Development, Stauffer Chemical Corporate R&D, and the Research Triangle Institute. She is a member of the American Chemical Society, the Society for Applied Spectroscopy, and the American Society for Testing and Materials. Dr. Skelly Frame received the B.S. degree in chemistry from Drexel University, Philadelphia, Pennsylvania, and the Ph.D. in analytical chemistry from Louisiana

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GEORGE M. FRAME II is Scientific Director, Chemical Biomonitoring Section of the Wadsworth Laboratory, New York State Department of Health, Albany. He has a wide range of experience in the field and has worked at the GE Corporate R&D Center, Pfizer Central Research, the U.S. Coast Guard R&D Center, the Maine Medical Center, and the USAF Biomedical Sciences Corps. He is an American Chemical Society member. Dr. Frame received the B.A. degree in chemistry from Harvard College, Cambridge, Massachusetts, and the Ph.D. degree in analytical chemistry from Rutgers University, New Brunswick, New Jersey.



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#### **Review**

With many scientific degrees covering various areas of instrumental analysis it is always difficult to find one book that can cover all the subjects required, but this book certainly does. It is an extensive review... ...I would see this book as being dipped into by students rather than being read as an entity. ...This is the type of book that could be used by a student from any degree pathway with an analytical instrumental component and would cover techniques from year one to final year. ...

- *Chromatographia*, Vol. 64, no. 9/10, 2006

... Now in its sixth edition, [this book] has developed and grown in size and stature and is much improved... Each chapter comes with a useful collection of additional material such as bibliographies, sources of spectral databases, experiments and problems. ...worthy of specific attention is the coverage of spectral methods. ...most major general textbooks choose to focus on the instrumentation and leave spectral interpretation to more specialized texts. Unusually, this text has incorporated quite extensive sections on the interpretation, [effectively removing] the artificial boundary between the construction and function of the instrument and the understanding of the results that the instrument generates. ...[this book] is now a much stronger contender for adoption by course instructors. ...

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