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By Sivasankar

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Instrumental Methods of Analysis is a textbook designed to introduce various analytical and chemical methods, their underlying principles and applications to the undergraduate engineering students of biotechnology and chemical engineering. This book would also be of interest to students who pursue their B. Sc / M. Sc degree programs in biotechnology and chemistry.

The book starts with a discussion on fundamentals of analytical chemistry, followed by data handling and statistical analysis. Wet chemical methods form the third chapter, where all the conventional titrimetric and gravimetric analysis is dealt with. It then moves onto discuss topics such as the microscopy, optical methods, various spectroscopic methods, X-ray methods, chromatographic methods, electrophoresis, and bulk separation methods. The last few chapters discuss electroanalytical methods, thermal, radioanalytical and finally the surface analytical methods.

Illustrated with block diagrams throughout the text, the book provides review questions, and numerical examples in all relevant chapters.

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Editorial Review

About the Author

Dr B Sivasankar is a Visiting Professor, Department of Chemistry, College of Engineering Guindy, Anna University, Chennai. He has more than 35 years of active teaching and research experience. He specializes in Analytical and Inorganic Chemistry and has published numerous articles in national and international journals of repute.

A Ph.D in Analytical and Inorganic Chemistry from the University of Madras, Dr Sivasankar has guided numerous research scholars in specialised areas of catalysis and biocatalysis.

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