

Bioanalytical Techniques

Abhilasha Shourie, Shilpa S. Chapadgaonkar



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Bioanalytical Techniques form an integral part of applied biology and biomedical sciences. The book provides understanding of the concept and working principles of various bioanalytical techniques used in biomedical sciences, environmental studies, life sciences, pharmaceutical analysis, molecular biology, and biotechnological research, as well as the various instruments used in these processes. Divided into 12 chapters, the book provides a comprehensive account of microscopy, centrifugation, chromatography, electrophoresis, spectroscopy. It also focuses on two main topics: radioisotope and immunodiagnostic techniques. Techniques in molecular biology and recombinant DNA technology have also been described in detail.

Key Features

- Explains analytical instrumentation in a concise manner
- Provides state-of-the-art sophisticated techniques that would be beneficial to researchers in various fields for experimentation
- Encourages reader to analytical thinking and practical application of the technique

Contents:

- General principles of Analytical Instrumentation
- Solutions and Buffers
- Microscopy
- Cell Disruption
- Centrifugation
- Chromatographic Techniques
- Electrophoresis
- Spectroscopy I
- Spectroscopy II
- Radioisotope Techniques
- Immunochemical Techniques
- Molecular Biology Techniques



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