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Sinopsis

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Interdisciplinary knowledge is becoming more and more important to the modern scientist. This invaluable textbook covers bioanalytical chemistry (mainly the analysis of proteins and DNA) and explains everything for the nonbiologist. Electrophoresis, mass spectrometry, biosensors, bioassays, DNA and protein sequencing are not necessarily all included in conventional analytical chemistry textbooks. The book describes the basic principles and the applications of instrumental and molecular methods. It is particularly useful to chemistry and engineering students who already have some basic knowledge about analytical chemistry.

Contents:

Biomolecules

Chromatography

Electrophoresis

Mass Spectrometry

Molecular Recognition: Bioassays, Biosensors, DNA-Arrays and Pyrosequencing

Nuclei Acids: Amplification and Sequencing

Protein Sequencing