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Bioanalytical Techniques

By Sekhar Talluri

I.K. International Publishing House Pvt. Ltd., 2012. Paperback. Book Condition: New. 16cm x 24cm. This book describes the principles of the bioanalytical techniques that are used in clinical diagnosis, pharmaceutical analysis, bioprocess monitoring, environmental studies and life sciences research. The primary focus of this book is on instrumental methods which are evolving rapidly due to the availability of new technologies. The basic concepts of each technique are explained in as concise and simple a manner as possible, without sacrificing generality or rigour. Part-I and Part-II are primarily for undergraduate students. Part-I describes analytical methods that are based on the separation of particles (chromatography, electrophoresis, mass spectrometry, etc). Part-II describes methods based on spectroscopy, scattering and diffraction. Part-III introduces some basic biochemical and molecular biological methods such as binding assays, PCR, protein sequencing and nucleic acid sequencing and is intended as background material for students who are interested in the topics described in Part-IV. Part-IV describes the basic concepts of novel micro- and nano-bioanalytical techniques which are based on biosensors, microarrays, microfluidics, surface plasmon resonance and nanomaterials. Part-IV is primarily for postgraduate students. However, adequate basics are provided to ensure that advanced undergraduates can also benefit from this section."



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