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sensors and instrumentation
for routine use and high-
throughput detection. This
review highlights several
exceptionally promising
research directions and
discusses how ...

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This edition provides extensive experimental details of protocols for all types of centrifugal separations from macromolecules to whole cells. It also describes the applications of centrifuges ranging from simple bench machines to analytical centrifuges.

While the theoretical basis of centrifugal separations remains the same, recent years have seen dramatic changes in both the design of centrifuges and the range of people that use them. This book reflects these changing uses of preparative

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Approach by providing detailed protocols covering all of the different types of separation from DNA to cells. Guidelines are also given to help the reader devise new types of separation protocols. The book includes program source code for calculation and simulation programs that are invaluable for quantitative centrifugation methods. In addition, this volume contains extensive appendices of valuable data that are required by everyone using centrifuges as part of their research work. Preparative Centrifugation: A Practical Approach contains a wealth

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Approach of guidelines, protocols, and practical advice that will be of direct use to experienced researchers and novices alike in virtually every area of biological research.

An important introduction to the use of the centrifuge in the biology laboratory, *Biological Centrifugation* is also useful for more experienced workers. The book describes the background and the principles behind centrifugation, including sedimentation theory. The book also considers the different types of centrifuge and other

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Approach hardware available, density gradient media and gradient technology. Although aimed primarily at the novice, this title also provides information to allow more experienced workers to modify and update existing techniques.

Many investigations into the structure and function of cells and tissues require the isolation of a particular membrane or subcellular component (organelle). This book covers all the necessary aspects, from breaking up the cells (homogenization), via a variety of separation

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Approach (the isolation and fractionation chapters), to characterization of the separated organelles.

Membrane Analysis provides a comprehensive review of laboratory methods for membrane study, with an emphasis on isolating membranes, analysing their composition and architecture, and investigating membrane function.

Introduction to Biological Membranes: Composition, Structure and Function, Second Edition is a greatly expanded revision of the first edition that

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Approach integrates many aspects of complex biological membrane functions with their composition and structure. A single membrane is composed of hundreds of proteins and thousands of lipids, all in constant flux. Every aspect of membrane structural studies involves parameters that are very small and fast. Both size and time ranges are so vast that multiple instrumentations must be employed, often simultaneously. As a result, a variety of highly specialized and esoteric biochemical and biophysical methodologies are often utilized. This book addresses the salient

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Approach of membranes at the molecular level, offering cohesive, foundational information for advanced undergraduate students, graduate students, biochemists, and membranologists who seek a broad overview of membrane science. Significantly expanded coverage on function, composition, and structure Brings together complex aspects of membrane research in a universally understandable manner Features profiles of membrane pioneers detailing how contemporary studies originated Includes a timeline of important discoveries related to

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membrane science

This new edition of Protein Purification Protocols completely updates the existing protocols to reflect recent advances and adds the enormous new array of proteomic techniques for protein isolation and analysis. These cutting-edge techniques include not only two-dimensional gel electrophoresis for analysis and characterization, but also analytical chromatography for multidimensional separations of proteins and peptides, and mass spectrometry for isolating proteins.

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This book is an up-to-date and unique collection of experimental protocols from an area of pharmaceutical research that is essential for the development of new, highly specific drugs as well as for the exploration of completely new therapeutic approaches to disease treatments.

Separating Cells: The basics provides user-friendly and practical guidance to the techniques most commonly used to separate cells. The book offers a concise overview of the fundamental principles and explains the 'what, how and why'. This title will be of

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Considerable interest to newcomers to these techniques.

Bioanalytical Techniques form an integral part of applied biology and biomedical sciences. The various principles of bioanalytical techniques used in biomedical sciences, environmental studies, life sciences, pharmaceutical analysis, molecular biology, and biotechnological research are comprehensively discussed in this book. Analytical instrumentation is also explained in as concise a manner as possible. Microscopy, centrifugation,

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Chromatography,
electrophoresis,
spectroscopy, and
radioisotope and
immunodiagnostic techniques
are the main topics focussed
in this book. Techniques in
molecular biology and
recombinant DNA technology
have also been described in
detail.

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