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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

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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 centrifuges by providing detailed protocols covering all of the different types of separation from DNA to cells. Guidelines

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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

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everyone using centrifuges as part of their research work. Preparative Centrifugation: A Practical Approach contains a wealth 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.

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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

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and other centrifuge 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.

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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 techniques (the isolation and



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

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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

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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 features of membranes at the molecular level, offering cohesive, foundational information for

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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

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The book offers a concise overview of the fundamental principles and explains the 'what, how and why'. This title will be of considerable interest to newcomers to these techniques.

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