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The use of biotechnology in chemical synthesis offers up numerous advantages to the engineer in the process industries, but it also presents a number of fundamental challenges and difficulties which impinge directly on separation process requirements. The use of biochemical

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well as a timely desk book for process engineers, process scientists, researchers, and research associates in the pharmaceutical, food, and life sciences industries.

The bioseparation engineering of today includes downstream process engineering such as waste water, material and gas treatment. Taking this tendency into account, bioseparation engineers gathered in Japan as a special research group under the main theme of "Recovery and Recycle of Resources to Protect the Global Environment". The scope of this book is based on the conference, and deals not only with recent advances in bioseparation engineering in a narrow sense, but also the environmental engineering which includes waste water treatment and bioremediation. The contributors of this book cover many disciplines such as chemical engineering, analytical chemistry, biochemistry, and

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microbiology. Bioseparation Engineering will stimulate young engineers and scientists who will develop bioseparation engineering further in the 21st century, and contribute to a world-wide attention to the global environment

It is generally recognized that the commercial success of biotechnology products is highly dependent on the successful development and application of high-powered separation and purification methods. In this practical and authoritative handbook, the separation of proteins, nucleic acids, and oligonucleotides from biological matrices is covered from analytical to process scales. Also included in a chapter on the separation of monoclonal antibodies, which have found numerous uses as therapeutic and diagnostic agents. Analytical techniques include an interesting montage of chromatographic methods, capillary

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