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# **EXTRACTIVE BIOCONVERSIONS**

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# Extractive Bioconversions

**Dieter Behrens, P. Krämer, DECHEMA**



## **Extractive Bioconversions:**

**Extractive Bioconversions** B. Mattiasson, 2021-07-28 Contributors from European and US universities and corporations review recent developments in the integration of downstream processing and bioconversion describing their experience with many separation technologies including some still in the experimental stage The topics include the construction **Process Integration in Biochemical Engineering** Urs von Stockar, Luuk van der Wielen, 2003-04-08 Process integration has been one of the most active research fields in Biochemical Engineering over the last decade and it will continue to be so if bioprocessing is to become more rational efficient and productive This volume outlines what has been achieved in recent years Written by experts who have made important contributions to the European Science Foundation Program on Process Integration in Biochemical Engineering the volume focuses on the progress made and the major opportunities and in addition on the limitations and the challenges in bioprocess integration that lie ahead The concept of bioprocess integration is treated at various levels including integration at the molecular biological bioreactor and plant levels but also accounting for the integration of separation and mass transfer operations and biology fluid dynamics and physiology as well as basic science and process technology Continuous Extractive Fermentation Using Hollow Fiber Membrane Extractors for Enhanced Propionate Production Zuwei Jin, 1997 Multimembrane Bioreactor for Extractive Fermentation Toohyon Cho, 1987 **Bioreactors - Downstream Processing - Process and Reactor Modelling - Bioprocesses** Dieter Behrens, P. Krämer, DECHEMA, 1989-04-20 **Downstream Processing Biosurfactants Carotenoids** Armin Fiechter, 1995-11-15 *Solvent Extraction Principles and Practice, Revised and Expanded* Jan Rydberg, Claude Musikas, Gregory R. Choppin, 1992-04-24 Recovery Processes for Biological Materials John F. Kennedy, Joaquim S. Cabral, 1993-07-20 This is a collection of papers looking at recovery processes for biological materials Topics covered include stability and stabilization of proteins during extraction separation and purification cell wall disruption membrane separation processes and liquid liquid extraction **AIChE Symposium Series** American Institute of Chemical Engineers, 1972 **Lactic Acid Production** Jordi Planes, 1998 **Abstracts of Papers** American Chemical Society, 1994 **Biochemical Engineering** Horst Chmiel, Walter P. Hammes, James Edwin Bailey, 1987 **Separations for Biotechnology**, 1987 **Acetone-butanol-ethanol Fermentation and Pervaporation by Clostridium Acetobutylicum B18** Qinghuang Geng, 1995 **Second Conference on Advances in Biochemical Engineering**, 1994 Presents the proceedings of a Biotechnology 94 a European Federation of Biotechnology conference held in Brighton on July 4th 1994 The event comprised five separate symposia held over three days ISEB 2 ABE 2 Conference on Applied Biocatalysis II 2 Conference on Fermentation Physiology *Catalysis from A to Z* Boy Cornils, Wolfgang A. Herrmann, Martin Muhler, Chi-Huey Wong, 2007 Comprehensive succinct and easy to use this updated third edition contains 50% more content in three volumes More than 200 top scientists worldwide have contributed over 8 000 entries with 3 300 cross references on all aspects of bio heterogeneous and homogeneous catalysis

**Environmentally Responsible Food Processing** K. Niranjana, Martin R. Okos, Marshall Rankowitz, 1994 Journal of Fermentation and Bioengineering, 1995 *Enzyme Engineering* 7 Allen I. Laskin, George T. Tsao, Lemuel B. Wingard, 1984  
**Measurement and Control in Bioprocessing** K. Carr-Brion, 1991

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