

Contents

Principle and Performance of Gas Self-inducing Reactors and Applications to Biotechnology	1
Qin Ye, Zhimin Li and Hui Wu	
Novel Hydrogen Bioreactor and Detection Apparatus	35
Joseph A. Rollin, Xinhao Ye, Julia Martin del Campo, Michael W.W. Adams and Y.-H. Percival Zhang	
Cell Processing Engineering for Regenerative Medicine	53
Mutsumi Takagi	
Reactors for High Solid Loading Pretreatment of Lignocellulosic Biomass	75
Jian Zhang, Weiliang Hou and Jie Bao	
Perturbation Experiments: Approaches for Metabolic Pathway Analysis in Bioreactors	91
Michael Weiner, Julia Tröndle, Christoph Albermann, Georg A. Sprenger and Dirk Weuster-Botz	
Advances and Practices of Bioprocess Scale-up.	137
Jianye Xia, Guan Wang, Jihan Lin, Yonghong Wang, Ju Chu, Yingping Zhuang and Siliang Zhang	
Index	153

Bioreactor Engineering Research and Industrial
Applications II

Bao, J.; Ye, Q.; Zhong, J.-J. (Eds.)

2016, IX, 155 p., Hardcover

ISBN: 978-3-662-48346-6