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Bioconversion of Waste Materials to Industrial Products

By Martin, A. M.

Book Condition: New. Publisher/Verlag: Springer, Berlin | By covering both the general principles of bioconversion and the specific characteristics of the main groups of waste materials amenable to bioconversion methods, this new book provides the chemical, biochemical, agrochemical and process engineer with clear guidance on the use of these methods in devising a solution to the problem of industrial waste products. | List of contributors. Preface. Preface to the first edition. Part One: The principles of bioconversion of waste materials. 1. The enzymic treatment of waste materials; P. Gacesa, J. Hubble. 2. Processes with immobilized enzymes and cells; S. Dumitriu, E. Chornet. 3. Solid substrate fermentation: a biotechnological approach to bioconversion of wastes; O. Paredes-López, S.H. Guzmán-Maldonado, A. Alpuche-Solís. 4. Composting processes; S.P. Mathur. Part Two: Bioconversion applications. 5. Bioprocessing of agro-residues to value added products; V.S. Bisaria. 6. Use of photosynthetic bacteria for the production of SCP and chemicals from organic wastes; K. Sasaki, T. Tanka, S. Nagai. 7. Utilization of starch industry wastes; S.K. Rakshit. 8. Bioconversion of food processing wastes; G.Th. Kroyer. 9. Bioconversion of cheese whey to organic acids; R.D. Tyagi, D. Kluepfel. 10. Lignocellulosic wastes: biological conversion; P.S. Chahal, D.S. Chahal. 11. Bioconversion of wastewater...



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