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Nota di contenuto	ch. 1. Advances in solid-state fermentation / Jorge A.V. Costa [and three others] -- ch. 2. Advances in porous characteristics of the solid matrix in solid-state fermentation / Lan Wang, Yang Liu, Hong-Zhang Chen -- ch. 3. Fungal growth on solid substrates : a physiological overview / Eleni Gomes [and three others] -- ch. 4. Kinetics of the solid-state fermentation process / Jose A. Rodriguez-Leon [and four others] -- ch. 5. Design of bioreactors in solid-state fermentation / Meena Krishania [and six others] -- ch. 6. Online monitoring of solid-state fermentation using respirometry / Maria T. Torres-Mancera [and five others] -- ch. 7. Bioreactors for the production of biological control agents produced by solid-state fermentation / Fernando Mendez-Gonzalez [and three others] -- ch. 8. Solid-state fermentation for the production of lipases for environmental and biodiesel applications / Erika C.G. Aguiéiras [and three others] -- ch. 9. Solid-state fermentation for the on-site production of cellulolytic enzymes and their use in the saccharification of lignocellulosic biomass / Cristiane S. Farinas -- ch. 10. Solid-state fermentation for the production of proteases and amylases and their application in nutrient medium

production / Aline Machado de Castro [and four others] -- ch. 11. Solid-state fermentation for laccases production and their applications / Susana Rodriguez-Couto -- ch. 12. Agricultural residues as animal feed : protein enrichment and detoxification using solid-state fermentation / Mateus G. Godoy [and three others] -- ch. 13. Secondary metabolites production : physiological advantages in solid-state fermentation / Javier Barrios-Gonzalez -- ch. 14. Solid-state fermentation for the production of mushrooms / Luiz A. Junior Letti [and seven others] -- ch. 15. Solid-state fermentation for food applications / Emilio Rosales, Marta Pazos, Ma. Angeles Sanroman -- ch. 16. Solid-state fermentation for the production of biosurfactants and their applications / Jorge A.V. Costa [and three others] -- ch. 17. Solid-state fermentation for vermicomposting : a step toward sustainable and healthy soil / Kavita Sharma, Vinod Kumar Garg -- ch. 18. Solid-state fermentation for the production of organic acids / Luciana P.S. Vandenberghe [and five others] -- ch. 19. Solid-state fermentation and plant-beneficial microorganisms / Nikolay Vassilev, Gilberto de Oliveira Mendes.

Sommario/riassunto

This book provides knowledge and information on solid-state fermentation involving the basics of microbiology, biochemistry, molecular biology, genetics and principles of genetic engineering, metabolic engineering and biochemical engineering.
