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Biohydrogen Production: Fundamentals and Technology Advances (Hardback)

By Debabrata Das, Namita Khanna, Chitraklekha Nag Dasgupta

Taylor Francis Inc, United States, 2014. Hardback. Book Condition: New. 240 x 160 mm. Language: English . Brand New Book. Biohydrogen Production: Fundamentals and Technology Advances covers the fundamentals of biohydrogen production technology, including microbiology, biochemistry, feedstock requirements, and molecular biology of the biological hydrogen production processes. It also gives insight into scale-up problems and limitations. In addition, the book discusses mathematical modeling of the various processes involved in biohydrogen production and the software required to model the processes. The book summarizes research advances that have been made in this field and discusses bottlenecks of the various processes, which presently limit the commercialization of this technology. The authors also focus on the process economy, policy, and environmental impact of this technology, since the future of biohydrogen production depends not only on research advances, but also on economic considerations (the cost of fossil fuels), social espousal, and the development of H₂ energy systems. The book describes the fundamentals of this technology interwoven with more advanced research findings. Further reading is suggested at the end of each chapter. Since the beauty of any innovation is its applicability, socioeconomic impact, and cost energy analysis, the book examines each of these points to give...



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