



# Biohydrogen Production: Fundamentals and Technology Advances

*Debabrata Das, Namita Khanna, Chitrlekha Nag Dasgupta*

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**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 H<sub>2</sub> 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 you a holistic picture of this technology. Illustrative diagrams, flow charts, and comprehensive tables detailing the scientific advancements provide an opportunity to understand the process comprehensively and meticulously. Written in a lucid style, the book supplies a complete knowledge bank about biohydrogen production processes.

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