



Biofilms II: Process Analysis and Applications

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Wiley Series in Ecological and Applied Microbiology, Ralph Mitchell, Series Editor

Biofilm processes profoundly impact industrial productivity and competitiveness. Their pervasive effects on water quality, power generation, energy efficiency, human and animal health, and product quality have compelled industries to observe the detrimental effects of biofilms. Although biofilms can be extremely costly to industry and harmful to health, they can also be highly beneficial in other applications. As a result, opportunities presented by biofilm systems for process innovation, analytical diagnosis, instrumentation development, biotechnological advances, and environmental benefits are tremendous.

Biofilms II: Process Analysis and Applications combines the fundamental principles of mathematics and physical sciences with the basics of biochemistry and molecular microbiology to explain the rapid advances in biofilm science and technology. The need for this updated edition is the result of combined interdisciplinary research efforts in biofilm science and engineering. In particular, the past decade has seen major advances in biofilm diagnostics, ecology dynamics, genetics, and transport phenomena. Included in this comprehensive volume is extensive coverage of:

- * Recent discoveries in biofilm processes, such as plasmid gene retention and transfer, cell signaling control of adhesion and gene transfer, and biofilm structural heterogeneity
- * Biofilm ecology, highlighting significant advances in genetics and molecular biology as applied to biofilm ecosystems
- * Real systems in which biofilms are utilized for beneficial applications or where undesired biofilms cause severe damage

Biofilms II will enhance the understanding of these complex microbial systems for scientists and engineers in academics and industry.

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