

On the mathematical modelling of microbial growth

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We propose a new approach to mathematical modelling of microbial growth. Our approach allows the introduction of two phases in the physiological states of the microorganisms. Such an approach may be useful in the modelling and control of biotechnological processes, where microorganisms used for various biodegradation purposes and are often put under extremely unfavorable conditions, such as prolonged depletion or excess of nutrient resources.