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“Bioprocess Engineering: Basic Concepts” Shuler and Kargi, Prentice Hall, 2002 David R. Shonnard Michigan Technological University 14 Sterilization of Gases ? aerobic fermentations require 0.1 to 1.0 (L air / (L liquid • min)) ? 50,000 L fermenter requires 7×10^6 to 7×10^7 L air/day ? microorganism concentrations in air are about 1-10 ...

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Bioprocess Engineering: Basic Concepts,

M. L. Shuler and F. Kargi, 2nd ed., 2001,

Prentice-Hall, NJ. First edition may

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alternatively be used. Available at Amazon.com, at Barnes & Noble or at University Bookstore (?). Course "Notebook" - A compilation of the slides you will see this semester. Available at University Bookstore.

Biological engineering - Wikipedia

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