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## **Bioprocess Engineering Shuler Kargi Solution**

“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))

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→ 50,000 L fermenter requires  $7 \times 10^6$  to  $7 \times 10^7$  L air/day → microorganism concentrations in air are about 1-10 ...

## **Chapter 10: Sterilization and Bioreactor Operation**

When there is very little pressure drop available, the L/D ratio must be much less than one (Towler, 2012). A common

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solution to this is to use a radial flow reactor with the catalyst contained in an annulus between vertical perforated or slotted screens. ... Shuler, ML, Kargi, F. Bioprocess Engineering Basic Concepts. 2nd ed. Upper Saddle ...

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