



Production of Courseware

e-Content for Post Graduate Courses

Paper : 15 Molecular Biology, Genetic Engineering, & Biotechnology

Module : 29 Bioprocess Engineering



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Description of Module	
Subject Name	
Paper Name	
Module Name/Title	Bioprocess Engineering

 Pathshala
पाठशाला
A Gateway to All Post Graduate Courses

SUGGESTED READINGS

Weblinks:

<http://technologyinscience.blogspot.in/2011/04/chemostat-culture-vs-batch-culture.html#>

<http://www.preservearticles.com/2012042631157/what-are-the-different-types-of-microbial-cultures.html>

<http://userpages.umbc.edu/xkang/ENCH772/chemostat.html>

<http://www.biotechnologyforums.com/thread-2336.html>

<http://www.engineersirelandcork.ie/downloads/Biopharmaceuticals%20Jan09%20-%20%20-%20Jan%20Marison%20DCU.pdf>

chemical.eng.usm.my/notes/HEKARL/notes/ekc471_notes.pdf

www.wiley-vch.de/books/sample/3527318194_c01.pdf

Books:

- Shuler, M. L. and F. Shuler, M. L. and F. Kargi. Bioprocess Engineering Basic Bioprocess Engineering Basic Concepts Concepts, 2nd ed., Prentice Hall, Upper Saddle Riv ed., Prentice Hall, Upper Saddle River, NJ, 2002.
- Stanbury, P. F., , P. F., A. Whitaker, A. Whitaker, and S. J. Hall, and S. J. Hall, Principles of Principles of Fermentation Technology Fermentation Technology, 2nd ed., Butterworth Butterworth Heinemann, Heinemann, Oxford, 2000. Oxford, 2000.
- Bailey, J. Bailey, J. E. and D. F. E. and D. F. Ollis, Biochemical Engineering Biochemical Engineering Fundamentals Fundamentals, 2nd ed., McGraw ed., McGraw -Hill Book Co., New York, 1986. Hill Book Co., New York, 1986.
- **Downstream Processing of Biotechnology Products . Protein Chromatography: Process Development and Scale-Up.** Giorgio Carta and Alois Jungbauer © 2010 WILEY-VCH Verlag GmbH & Co. KGaA, Weinheim

Journals:

Badino A.C. , Facciotti M.C.R. , Schmidell W. (2001) Volumetric oxygen transfer coefficients (k_La) in batch cultivations involving non-Newtonian broths . Biochem Eng J (8) 111–119

Ochoa F G, Gomez E (2009) Bioreactor scale-up and oxygen transfer rate in microbial processes: An overview Biotechnol. Adv. (27) 153–176

