

Introduction To Biochemical Engineering D G Rao

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Introduction To Biochemical Engineering By D G Rao

INTRODUCTION In biochemical engineering processes, measurement of dissolved oxygen (DO) is essential. The production of SCP may reach a steady-state condition by keeping the DO level constant, while the viable protein is continuously harvested. The concentration of protein is proportional to oxygen uptake rate.

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The course is aimed at university-level students of all engineering backgrounds, who would like to learn the basics of modern biomedical engineering, including the development of human-robotic interfaces and systems such as bionic prosthetics. The course is covering the practical basics of almost everything that a modern biomedical engineer is required to know: electronics, control theory, microcontrollers (Arduino), and high-level programming (MATLAB).

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Indeed, 96 freshmen enrolled in the Spring 2003 course entitled "Introduction to Biomedical Engineering" at Carnegie Mellon. This course was the first required offering in a new double major at Carnegie Mellon, and intended to be deep enough to be on par with other first courses in traditional engineering majors.

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