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**1 Bioprocessing Part 2:
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~~Lecture 09:~~

**~~Stoichiometry of
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show all show all steps.

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The text makes
extensive use of
illustrations, examples,
and problems, and
contains references for

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further reading as well as a detailed appendix describing traditional bioprocesses.

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The emergence and refinement of techniques in molecular biology has changed our perceptions of medicine, agriculture and environmental

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management. Scientific breakthroughs in gene expression, protein engineering and cell fusion are being translated by a strengthening biotechnology industry into revolutionary new products and services. Many a student has been enticed by the promise of biotechnology and the excitement of being

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near the cutting edge of scientific advancement. However, graduates trained in molecular biology and cell manipulation soon realise that these techniques are only part of the picture. Reaping the full benefits of biotechnology requires manufacturing capability involving the large-scale processing

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of biological material.

Increasingly, biotechnologists are being employed by companies to work in co-operation with chemical engineers to achieve pragmatic commercial goals. For many years aspects of biochemistry and molecular genetics have been included in chemical engineering curricula, yet there has

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been little attempt until recently to teach aspects of engineering applicable to process design to

biotechnologists. This textbook is the first to present the principles of bioprocess engineering in a way that is accessible to biological scientists. Other texts on bioprocess engineering currently available

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assume that the reader already has engineering training. On the other hand, chemical engineering textbooks do not consider examples from bioprocessing, and are written almost exclusively with the petroleum and chemical industries in mind. This publication explains process analysis from an

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Bioprocess engineering point of view, but refers exclusively to the treatment of biological systems. Over 170 problems and worked examples encompass a wide range of applications, including recombinant cells, plant and animal cell cultures, immobilised catalysts as well as traditional fermentation systems. *

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* First book to present the principles of bioprocess engineering in a way that is accessible to biological scientists * Explains process analysis from an engineering point of view, but uses worked examples relating to biological systems * Comprehensive, single-authored * 170 problems and worked

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examples encompass a wide range of applications, involving recombinant plant and animal cell cultures, immobilized catalysts, and traditional fermentation systems * 13 chapters, organized according to engineering sub-disciplines, are grouped in four sections - Introduction, Material

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and Energy Balances,
Physical Processes, and
Reactions and Reactors

* Each chapter includes
a set of problems and
exercises for the
student, key references,
and a list of suggestions
for further reading *

Includes useful
appendices, detailing
conversion factors,
physical and chemical
property data, steam

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tables, mathematical rules, and a list of symbols used * Suitable for course adoption - follows closely curricula used on most bioprocessing and process biotechnology courses at senior undergraduate and graduate levels.

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involves the design and

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development of
equipment and
processes for the
manufacturing of
products such as food,
feed, pharmaceuticals,
nutraceuticals,
chemicals, and polymers
and paper from
biological materials. It
also deals with studying
various biotechnological
processes. "Bioprocess
Kinetics and Systems

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"Engineering" first of its kind contains systematic and comprehensive content on bioprocess kinetics, bioprocess systems, sustainability and reaction engineering. Dr. Shijie Liu reviews the relevant fundamentals of chemical kinetics- including batch and continuous reactors, biochemistry,

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Bioprocesses is the central theme of this book, while more advanced techniques and applications are covered with some depth. Many theoretical derivations and simplifications are used to demonstrate how empirical kinetic models are applicable to complicated bioprocess systems. Contains

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extensive illustrative drawings which make the understanding of the subject easy Contains worked examples of the various process parameters, their significance and their specific practical use Provides the theory of bioprocess kinetics from simple concepts to complex metabolic pathways Incorporates

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The goal of this
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instead of being a
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leave students grappling

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with a lot of material,
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rate of retention.

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emphasis will be placed
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application, analysis and synthesis, evaluation, creation) relating to material balances. In addition, this book also provides students with a highly developed ability to analyze problems from the material balances perspective, which leaves them with important skills for the future. The textbook consists of numerous

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and explains their use in
the manufacturing of
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author uses a direct
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and biotechnology,
including applications in
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technologies, enzymatic
processes, and
membrane separations,
amongst others

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along with explanations

The ability of the United
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States to sustain a dominant global position in biotechnology lies in maintaining its primacy in basic life-science research and developing a strong resource base for bioprocess engineering and bioproduct manufacturing. This book examines the status of bioprocessing

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and biotechnology in the United States; current bioprocess technology, products, and opportunities; and challenges of the future and what must be done to meet those challenges. It gives recommendations for action to provide suitable incentives to establish a national program in bioprocess-

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Horiuchi, who is one of

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the leading experts in the field. The central theme of the textbook remains the application of chemical engineering principles to biological processes in general, demonstrating how a chemical engineer would address and solve problems. To create a logical and clear structure, the book is divided into three parts.

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