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SUBMIT

BIOPROCESS TECHNOLOGY

SYLLABUS

UNIT - I

Introduction to industrial microorganisms: Isolation, Preservation and Maintenance of Industrial Microorganisms; Kinetics of microbial growth and death. Media for industrial fermentation. Air and media Sterilization

UNIT - II

Types of fermentation processes: Analysis of batch, fed-batch and Continuous bioreactors; Components of bioreactor - Measurement and Control of bioprocess parameters.

UNIT - III

Downstream Processing: Introduction, Removal of microbial cells and solid matter, foam removal, Precipitation, Filtration, Centrifugation, cell disruption, liquid-liquid extraction, chromatography, Membrane process, Drying and Crystallization. Effluent Treatment: SO₂, NO_x and CO₂ treatment and disposal of effluents.

UNIT - IV

Industrial Production of chemicals: Alcohol (Ethanol), Acids (Citric), Antibiotics (Penicillin), Amino Acids (lysine), Single cell Protein (algae/fungi)

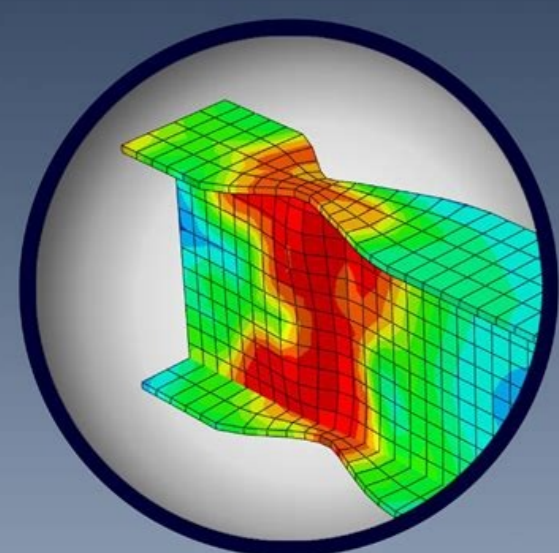
UNIT - V

Introduction to Food Technology: Food Preservation - methods Canning and Packing; Enzyme technology - biosensor, Immobilization of enzymes. Commercial production of enzymes - techniques and applications.

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Finite Element Analysis

Applications and Solved Problems using Abaqus®

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Mamaghani
MS, EIT

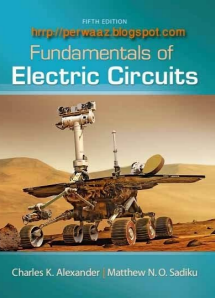
FIFTH EDITION

Time Series Analysis

Forecasting and Control

George E. P. Box • Gwilym M. Jenkins
Gregory C. Reinsel • Greta M. Ljung

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OSHA 30 CONSTRUCTION FINAL EXAM TEST ANSWER KEY

- Examples of fall hazards that have resulted in deaths on the jobsite include:
 - Falls to the ground or overboard
 - Falls through openings from one level to another
 - Falls through the floor or roof deck
 - Falls from ladders
 - All of the above (correct answer)
- Rescue investigations should focus on:
 - Identifying falls
 - Determining why the accident or near miss occurred
 - What actions can be taken to prevent recurrence
 - Identify and correct systemic causes
- When you've been assigned a new job or task, be sure to ask about the:
 - Available job site safety
 - Work safety policy in the nearest OSHA office
 - Rescue equipment that you will be using on the job
 - Whether you should be wearing a fall protection harness (correct answer)
- Underground electrical hazards are:
 - Easy to identify
 - Often hidden under a surface that is marked by equipment operators (correct answer)
 - Always marked exactly where they are located
 - Always marked with a sign

Get your tests passed

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Expanded Expandeddesign loads. Gilbert, PE, Secb Book PDF at no cost by using links below. In addition, a discussion on the natural hazards and the ASCE Standard testabalist approach to natural risk design loads is added. A substantial number of problems are new or revised for this edition (in the metric units and the U.S. customary system), and many are typical of the analysis problems found in practice. Leet, Chia-Ming Uang, Joel T. These carefully customized problems illustrate significant aspects of structural behavior that, in the past, experienced designers needed many years of practice to understand and analyze correctly. The presentation aims to provide students with a basic understanding of how design loads are determined for the practical design of multi-story buildings, bridges and other structures. The many options allow the instructor to select appropriate problems for a particular class or for a particular emphasis. The computer problems are identified with a computer screen icon and begin in Chapter 4 of the text. While readers are supposed to have completed basic courses in material statistics and strength, the basic techniques of these courses are briefly reviewed the first time they are mentioned. A specific text website is available to users. Gilbert, PE, Secb Book pdf. This includes dead and alive loads, snow, earthquake and wind loads, and, again in this edition (and the ASCE standard), the tsunami load. Website of the textbook. Download the basics of structural analysis Fifth edition by Kenneth M. 2. Do you like this book? Great reorganization. 4. Although the authors assume that readers have completed basic courses in statistics and strength of theWe briefly review the basic techniques of these courses the first time we mentioned them. the number of chapters has been reduced from 18 in the previous editions to 16 for a more concise presentation of the materials. 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