

Bioprocess Engineering Basic Concepts Shuler

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this concise yet comprehensive text introduces the essential concepts of bioprocessing internal structure and functions of different types of microorganisms major metabolic pathways enzymes microbial genetics kinetics and stoichiometry of growth and product information to traditional chemical engineers and those in related disciplines it explores

the engineering principles necessary for bioprocess synthesis and design and illustrates the application of these principles to modern biotechnology for production of pharmaceuticals and biologics solution of environmental problems production of commodities and medical applications

textbook for junior and senior level majors in chemical engineering covering the field of biochemical engineering

written by more than 400 subject experts representing diverse academic and applied domains this multidisciplinary resource surveys the vanguard of biomaterials and biomedical engineering technologies utilizing biomaterials that lead to quality of life improvements building on traditional engineering principles it serves to bridge advances in materials science life sciences nanotechnology and cell biology to innovations in solving medical problems with applications in tissue engineering prosthetics drug delivery biosensors and medical devices in nearly 300 entries this four volume encyclopedia of biomaterials and biomedical engineering second edition covers essential topics integral to tissue engineering research bioreactors scaffolding materials and fabrication tissue mechanics cellular interaction and development of major tissues and organs being attempted by researchers worldwide artificial lungs and muscles bio artificial livers and corneal dental inner ear and total hip implants tissue engineering of blood vessels heart valves ligaments microvascular networks skeletal muscle and skin bone remodeling bone cement and bioabsorbable bone plates and screws controlled drug delivery insulin delivery and transdermal and ocular implant based drug delivery endovascular stent grafts vascular grafts and xenografts 3 d medical imaging electrical impedance imaging and intravascular ultrasound biomedical protein adsorption and in vivo cardiovascular modeling polymer foams biofunctional and conductive polymers and electroactive polymeric materials blood material interactions the bone implant interface host reactions and foreign body responses and much more

learn chemical reaction engineering through reasoning not memorization essentials of chemical reaction engineering is a complete yet concise modern introduction to chemical reaction engineering for undergraduate students while the classic elements of chemical reaction engineering fourth edition is still available h scott fogler distilled that larger text into this volume of essential topics for undergraduate students fogler s unique way of presenting the material helps students gain a deep intuitive understanding of the field s essentials through reasoning not memorization he especially focuses on important new energy and safety issues ranging from solar and biomass applications to the avoidance of runaway reactions thoroughly classroom tested this text reflects feedback from hundreds of students at the university of michigan and other leading universities it also provides new resources to help students discover how reactors behave in diverse situations coverage includes crucial safety topics including ammonium nitrate cstr explosions nitroaniline and t2 laboratories batch reactor runaways and sache ccps resources greater emphasis on safety following the recommendations of the chemical safety board csb 2 case studies from plant explosions and two homework problems which discuss another explosion solar energy conversions chemical thermal and catalytic water spilling algae production for biomass mole balances batch continuous flow and industrial reactors conversion and reactor sizing

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