



Mohit Makkar

# **Passivity Based Modeling and Control of Continuous Biological Reactors**



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# Passivity Modeling Continuous Biological Reactors

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## **Passivity Modeling Continuous Biological Reactors:**

**Passivity Based Modeling and Control of Continuous Biological Reactors** Mohit Makkar, 2015-12-24 This work proposes a passivity based formulation and control of a well mixed reactor model for a set of chemical and biochemical reactions Gibbs free energy is an apt Hamiltonian function for isothermal cases An energy based model of such systems is proposed which is quasi Port Hamiltonian based on physical grounds The model is taking care of the concentration space and reaction space of a chemical reaction Stoichiometric and Reaction interconnection and damping assignment passivity based controllers IDA PBC are derived from these models Control of enzymatic hydrolysis of cellulose in continuous reactor is simulated A passivity based model of a general set of microbial reactions in open reactors with new Lyapunov functions is derived A change of coordinates simplifies the number of equations to be taken care of and shows the passivity of the system The Lyapunov functions are in close proximity with the Gibbs free energy function used in Port Hamiltonian model of enzymatic reactions A general method of generating an adaptive passivity based control law which maintains the structure of the model is given Validation of the model is done on multiple reaction examples

**Biological Metal Recovery from Wastewaters** Sabrina Hedrich, Oliver Wiche, 2025-01-28 This book reviews the latest research on innovative and sustainable biotechnologies for metal recovery from various process streams emphasising the fundamentals and applications of biosystems Divided into 7 chapters it clarifies many topics including biological iron and aluminum recovery from wastewaters precious metal recovery Pt Pd Au Ag algal based metal recovery selenium and tellurium recovery phytoextraction options and arsenic removal by sulfate reducing bacteria Expert contributors explore microbial metabolisms such as iron oxidation sulfate sulfur reduction and selenite reduction through the lens of environmental sustainability In this book readers will discover various case studies and commercial applications of these biotechnologies Particular attention is given to combinations of biological systems with electrochemistry to enhance metal recycling from complex and diluted streams This book is a valuable resource for researchers in the field of environmental biotechnology and scholars of environmental science chemical engineering and microbiology Waste management and resource recovery professionals will benefit greatly from the insights provided This book is a must read for anyone interested in sustainable solutions for critical metal supply within a circular economy framework

**Bioreaction Engineering Principles** John Villadsen, Jens Nielsen, Gunnar Lidén, 2011-07-12 The present text is a complete revision of the 2nd edition from 2003 of the book with the same title In recognition of the fast pace at which biotechnology is moving we have rewritten several chapters to include new scientific progress in the field from 2000 to 2010 More important we have changed the focus of the book to support its use not only in universities but also as a guide to design new processes and equipment in the bio industry A new chapter has been included on the prospects of the bio refinery to replace many of the oil and gas based processes for production of especially bulk chemicals This chapter also serves to make students in Chemical Engineering and in the Bio Sciences enthusiastic about the

whole research field As in previous editions we hope that the book can be used as textbook for classes even at the undergraduate level where chemical engineering students come to work side by side with students from biochemistry and microbiology To help the chemical engineering students Chapter 1 includes a brief review of the most important parts of microbial metabolism In our opinion this review is sufficient to understand microbial physiology at a sufficiently high level to profit from the rest of the book Likewise the bio students will not be overwhelmed by mathematics but since the objective of the book is to teach quantitative process analysis and process design at a hands on level some mathematics and model analysis is needed We hope that the about 100 detailed examples and text notes together with many instructive problems will be sufficient to illustrate how model analysis is used also in Bio reaction Engineering

### **Water Treatment Unit Processes**

David W. Hendricks, 2018-10-03 The unit process approach common in the field of chemical engineering was introduced about 1962 to the field of environmental engineering An understanding of unit processes is the foundation for continued learning and for designing treatment systems The time is ripe for a new textbook that delineates the role of unit process principles in environmental engineering Suitable for a two semester course Water Treatment Unit Processes Physical and Chemical provides the grounding in the underlying principles of each unit process that students need in order to link theory to practice Bridging the gap between scientific principles and engineering practice the book covers approaches that are common to all unit processes as well as principles that characterize each unit process Integrating theory into algorithms for practice Professor Hendricks emphasizes the fundamentals using simple explanations and avoiding models that are too complex mathematically allowing students to assimilate principles without getting sidelined by excess calculations Applications of unit processes principles are illustrated by example problems in each chapter Student problems are provided at the end of each chapter the solutions manual can be downloaded from the CRC Press Web site Excel spreadsheets are integrated into the text as tables designated by a CD prefix Certain spreadsheets illustrate the idea of scenarios that emphasize the idea that design solutions depend upon assumptions and the interactions between design variables The spreadsheets can be downloaded from the CRC web site The book has been designed so that each unit process topic is self contained with sidebars and examples throughout the text Each chapter has subheadings so that students can scan the pages and identify important topics with little effort Problems references and a glossary are found at the end of each chapter Most chapters contain downloadable Excel spreadsheets integrated into the text and appendices with additional information Appendices at the end of the book provide useful reference material on various topics that support the text This design allows students at different levels to easily navigate through the book and professors to assign pertinent sections in the order they prefer The book gives your students an understanding of the broader aspects of one of the core areas of the environmental engineering curriculum and knowledge important for the design of treatment systems

### **Current Trends and Future**

**Developments on (Bio-) Membranes** Angelo Basile, Maria Cristina Annesini, Vincenzo Piemonte, Catherine

Charcosset,2019-10-11 Current Trends and Future Developments on Bio Membranes Membrane Applications in Artificial Organs and Tissue Engineering reports on membrane applications in the field of biomedical engineering ranging from artificial organs to tissue engineering The book offers a comprehensive review of all the current scientific developments and various applications of membranes in this area It is a key reference text for R D managers in industry who are interested in the development of artificial and bioartificial organs as well as academic researchers and postgraduate students working in the wider area of artificial organs and tissue engineering Describes numerous bioartificial organ configurations and their relationships to membranes Includes new innovations and solutions in the development of artificial organs with membrane components Describes various membrane fabrication techniques for tissue engineering Dynamic Process Modeling,2013-10-02 Inspired by the leading authority in the field the Centre for Process Systems Engineering at Imperial College London this book includes theoretical developments algorithms methodologies and tools in process systems engineering and applications from the chemical energy molecular biomedical and other areas It spans a whole range of length scales seen in manufacturing industries from molecular and nanoscale phenomena to enterprise wide optimization and control As such this will appeal to a broad readership since the topic applies not only to all technical processes but also due to the interdisciplinary expertise required to solve the challenge The ultimate reference work for years to come *Recent Trends in Modelling of Environmental Contaminants* Debashish Sengupta,2014-06-18 The book deals primarily with the aspects like energy resources and its proper utilization disposal of various forms of wastes and its effects and effects of major catastrophic events like nuclear disasters global warming etc It also deals with the choice of suitable disposal sites for solid and hazardous waste which is growing at an extremely rapid pace due to rapid industrialization population growth primarily in countries like India and China and urbanization In addition groundwater contamination due to various causes and its effect on the food chain is also amply discussed The book is specifically aimed with the state of art information regarding research and development in these areas of study coupled to extensive modelling and case based results obtained both from India as well as other countries The book is extremely instructive for the students research workers scientists faculty members in Applied Physics Solid Earth Geophysics Radiometric Methods and Exploration Ground Water Geochemistry Mathematical Modeling Techniques in Earth Sciences Near Surface Geophysics and Earth and Environmental Sciences

**Energy/environment** ,1977 Automatic Control of Bioprocesses Denis Dochain,2013-03-01 Giving an overview of the challenges in the control of bioprocesses this comprehensive book presents key results in various fields including dynamic modeling dynamic properties of bioprocess models software sensors designed for the on line estimation of parameters and state variables control and supervision of bioprocesses Biosimulation Daniel A. Beard,2012-04-12 This practical guide to biosimulation provides the hands on experience needed to devise design and analyze simulations of biophysical processes for applications in biological and biomedical sciences Through real world case studies and worked examples students will

develop and apply basic operations through to advanced concepts covering a wide range of biophysical topics including chemical kinetics and thermodynamics transport phenomena and cellular electrophysiology Each chapter is built around case studies in a given application area with simulations of real biological systems developed to analyze and interpret data Open ended project based exercises are provided at the end of each chapter and with all data and computer codes available online [www.cambridge.org/biosim](http://www.cambridge.org/biosim) students can quickly and easily run manipulate explore and expand on the examples inside This hands on guide is ideal for use on senior undergraduate graduate courses and also as a self study guide for anyone who needs to develop computational models of biological systems

Multiscale Modelling in Biomedical Engineering Dimitrios I. Fotiadis, Antonis I. Sakellarios, Vassiliki T. Potsika, 2023-05-31 Multiscale Modelling in Biomedical Engineering Discover how multiscale modeling can enhance patient treatment and outcomes In Multiscale Modelling in Biomedical Engineering an accomplished team of biomedical professionals delivers a robust treatment of the foundation and background of a general computational methodology for multi scale modeling The authors demonstrate how this methodology can be applied to various fields of biomedicine with a particular focus on orthopedics and cardiovascular medicine The book begins with a description of the relationship between multiscale modeling and systems biology before moving on to proceed systematically upwards in hierarchical levels from the molecular to the cellular tissue and organ level It then examines multiscale modeling applications in specific functional areas like mechanotransduction musculoskeletal and cardiovascular systems Multiscale Modelling in Biomedical Engineering offers readers experiments and exercises to illustrate and implement the concepts contained within Readers will also benefit from the inclusion of A thorough introduction to systems biology and multi scale modeling including a survey of various multi scale methods and approaches and analyses of their application in systems biology Comprehensive explorations of biomedical imaging and nanoscale modeling at the molecular cell tissue and organ levels Practical discussions of the mechanotransduction perspective including recent progress and likely future challenges In depth examinations of risk prediction in patients using big data analytics and data mining Perfect for undergraduate and graduate students of bioengineering biomechanics biomedical engineering and medicine Multiscale Modelling in Biomedical Engineering will also earn a place in the libraries of industry professional and researchers seeking a one stop reference to the basic engineering principles of biological systems

12th International Symposium on Process Systems Engineering and 25th European Symposium on Computer Aided Process Engineering , 2015-07-14 25th European Symposium on Computer Aided Process Engineering contains the papers presented at the 12th Process Systems Engineering PSE and 25th European Society of Computer Aided Process Engineering ESCAPE Joint Event held in Copenhagen Denmark 31 May 4 June 2015 The purpose of these series is to bring together the international community of researchers and engineers who are interested in computing based methods in process engineering This conference highlights the contributions of the PSE CAPE community towards the sustainability of modern society Contributors from academia and industry establish the core products of PSE

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**Biorefinery of Industrial Effluents for a Sustainable Circular Economy** Mu. Naushad, Shamsul Rahman Mohamed Kutty, Sohrab Hossain, Abdullahi Haruna Birniwa, Ahmad Hussaini Jagaba, 2024-11-28 Bio Refinery of Industrial Effluents for a Sustainable Circular Economy provides a combined approach between environmental engineering which involves the improvement of the natural environment or remediation of polluted sites In addition it discusses bioprocess engineering involving the development of processes for the manufacture of products from biological materials to produce a valuable bioproduct This book covers knowledge on sources impacts and applications of industrial effluents that could potentially be used as feedstock for the IEB with examples of applied research that demonstrates the relationship between the effluents biorefinery treatment and bioproduct recovery Materials that can be produced from IEB and the treatment processes for such are considered Provides industrial effluents source characteristics and treatment Assists in designing an optimization strategy for maximizing efficiency of waste treatment and of bioresource utilization in terms of economic environmental and social impact Explains bio based product recovery for a bio based economy Discusses advanced processes for simultaneous industrial effluents treatment and the generation of bio based products of sufficient value

**Computational Fluid Dynamics Applications in Bio and Biomedical Processes** Satya Eswari Jujjavarapu, Tukendra Kumar, Sharda Gupta, 2024-01-17 This book covers emerging areas in novel design and their hydrodynamic properties relevant to bioreactors environmental system electrochemical systems food processing and biomedical engineering This book uses an interdisciplinary approach to provide a comprehensive prospective simulation modeling and hydrodynamic study in advanced biotechnological process and includes reviews of the most recent state of art in modeling and simulation of flows in biological process such as CFD Written by internationally recognized researchers in the field each chapter provides a strong introductory section that is useful to both readers currently in the field and readers interested in learning more about these areas

*Solar Energy Update*, 1984

*Nuclear Science Abstracts*, 1975

*Advanced Therapies for Cardiac Regeneration* Valeria Chiono, Ipsita Roy, Monica Boffito, Irene Carmagnola, Susanna Sartori, 2021-04-13 The Research Topic is organized in the framework of the project BIORECAR grant number 772168 <http://www.biorecar.polito.it/index.html>

**Energy Research Abstracts**, 1993

Metal Removal and Recovery from Mining Wastewater and E-waste Leachate Suthee Janyasuthiwong, 2020-02-18 Metal

contamination in the environment is a persisting global issue. The metal reservoirs in the earth have declined due to society's needs and due to uncontrolled mining activities. Therefore, the idea to recover metals from waste streams has emerged. In this thesis, cost competitive technologies such as adsorption using agro wastes and precipitation using an inverse fluidized bed (IFB) reactor were investigated with special emphasis on the recovery of base metals. Groundnut shell showed good potential for metal Cu, Pb and Zn removal. From artificial neural network modeling, the performance of the sulfate reducing bacteria (SRB) was found to be strongly pH dependent. The removal efficiency of Cu and Zn in the IFB at pH 5.0 was 97%. Electronic waste is a good candidate as secondary metal resource. The recovery of Cu from computer printed circuit boards (PCBs) using biogenic sulfide precipitation was investigated as well. Using this technology, Cu could be recovered at 0.48 g Cu/g PCBs.

**Environmental Biotechnology** Daniel A. Vallero, 2015-09-11. Environmental Biotechnology: A Biosystems Approach, Second Edition presents valuable information on how biotechnology has acted as a vital buffer among people, pollution and the environment. It answers the most important questions on the topic, including how and why a knowledge and understanding of the physical, chemical and biological principles of the environment must be achieved in order to develop biotechnology applications. Most texts address either the applications or the implications of biotechnology. This book addresses both. The applications include biological treatment and other environmental engineering processes. The risks posed by biotechnologies are evaluated from both evidence based and precautionary perspectives. Using a systems biology approach, the book provides a context for researchers and practitioners in environmental science that complements guidebooks on the necessary specifications and criteria for a wide range of environmental designs and applications. Users will find crucial information on the topics scientific researchers must evaluate in order to develop further technologies. Provides a systems approach to biotechnologies which includes the physical, biological and chemical processes in context. Presents relevant case studies on cutting edge technologies such as nanobiotechnologies and green engineering. Addresses both the applications and implications of biotechnologies by following the lifecycle of a variety of established and developing biotechnologies. Includes crucial information on the topics scientific researchers must evaluate in order to develop further technologies.



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