



Mohit Mukherjee

# Passivity Based Modeling and Control of Continuous Biological Reactors

# Passivity Modeling Continuous Biological Reactors

**Michael Brown**



## **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

**Energy/environment**, 1977 **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

Energy Research Abstracts, 1979 Semiannual with semiannual and annual indexes References to all scientific and technical literature coming from DOE its laboratories energy centers and contractors Includes all works deriving from DOE other related government sponsored information and foreign nonnuclear information Arranged under 39 categories e g Biomedical sciences basic studies Biomedical sciences applied studies Health and safety and Fusion energy Entry gives bibliographical information and abstract Corporate author subject report number indexes

**Chemical Reactor Theory** Richard Herman Wilhelm, 1977

*Spirit of Enterprise* David W. Reed, 1993 Describes the projects of the five laureates 36 honourable mentions and a further 226 individuals from all over the world who received Rolex Awards for Enterprise in 1993 for breaking new ground in the fields of applied sciences and invention exploration and discovery and the environment

**Energy/environment II.**, 1977

Solar Energy Update, 1984-11

**Aerospace Medicine and Biology**, 1990 A selection of annotated references to unclassified reports and journal articles that were introduced into the NASA scientific and technical information system and announced in Scientific and technical aerospace reports STAR and International aerospace abstracts IAA

**American Doctoral Dissertations**, 1989

**Reverse Acronyms, Initialisms, & Abbreviations Dictionary**, 1987

**Bibliography of Agriculture**, 1998

*Comprehensive Biotechnology*, 2019-07-17 Comprehensive Biotechnology Third Edition Six Volume Set unifies in a single source a huge amount of information in this growing field The book covers scientific fundamentals along with engineering considerations and applications in industry agriculture medicine the environment and socio economics including the related

government regulatory overviews This new edition builds on the solid basis provided by previous editions incorporating all recent advances in the field since the second edition was published in 2011 Offers researchers a one stop shop for information on the subject of biotechnology Provides in depth treatment of relevant topics from recognized authorities including the contributions of a Nobel laureate Presents the perspective of researchers in different fields such as biochemistry agriculture engineering biomedicine and environmental science **Energy Research Abstracts** ,1983 Includes all works deriving from DOE other related government sponsored information and foreign nonnuclear information

**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 CAPE define the new and changing scope of our results and future challenges Plenary and keynote lectures discuss real world challenges globalization energy environment and health and contribute to discussions on the widening scope of PSE CAPE versus the consolidation of the core topics of PSE CAPE Highlights how the Process Systems Engineering Computer Aided Process Engineering community contributes to the sustainability of modern society Presents findings and discussions from both the 12th Process Systems Engineering PSE and 25th European Society of Computer Aided Process Engineering ESCAPE Events Establishes the core products of Process Systems Engineering Computer Aided Process Engineering Defines the future challenges of the Process Systems Engineering Computer Aided Process Engineering community *A Potential-flow Reactor Model for Initial Design of Pulse-pumped Groundwater Remediation Systems* Craig Michael Tenney,2004 Engineering Education ,1983 *Dissertation Abstracts International* ,2005 *Biotechnology Research Abstracts* ,1991 Monthly Classified listing of references to worldwide articles dealing with all aspects of biotechnology Also includes books and conferences Each entry gives bibliographic information institutional address of author s and abstract Author and subject index

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