

THE IMA VOLUMES IN MATHEMATICS  
AND ITS APPLICATIONS

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**Resource  
Recovery,  
Confinement, and  
Remediation of  
Environmental  
Hazards**



Springer

# Resource Recovery Confinement And Remediation Of Environmental Hazards

**John M. Chadam**



## **Resource Recovery Confinement And Remediation Of Environmental Hazards:**

**Resource Recovery, Confinement, and Remediation of Environmental Hazards** John Chadam, Al Cunningham, Richard E Ewing, 2002-09-01      **Resource Recovery, Confinement, and Remediation of Environmental Hazards** John M. Chadam, 2002 The papers in this volume arose out of two workshops entitled Confinement and Remediation of Environmental Hazards and Resource Recovery as part of the IMA 1999 2000 program year These workshops brought together mathematicians engineers and scientists to summarize recent theoretical computational and experimental advances in the theory of phenomena in porous media The first workshop focused on the mathematical problems which arise in groundwater transport of contamination and the spreading confinement and remediation of biological chemical and radioactive waste In the second conference the processes underlying petroleum recovery and the geological time scale of deformation flow and reaction in porous media were discussed Simulation techniques were used to simulate complex domains with widely ranging spatial resolution and types of physics Probability functional methods for determining the most probable state of the subsurface and related uncertainty were discussed Practical examples included breakout from chemical and radioactive waste repositories confinement by injection of pore plugging material and bioremediation of petroleum and other wastes This volume will be of interest to subsurface science practitioners who would like a view of recent mathematical and experimental efforts to examine subsurface science phenomena related to resource recovery and remediation issues

*Resource Recovery, Confinement, and Remediation of Environmental Hazards* John Chadam, Al Cunningham, Richard E. Ewing, Peter Ortoleva, Mary F. Wheeler, 2012-12-06 This IMA Volume in Mathematics and its Applications RESOURCE RECOVERY CONFINEMENT AND REMEDIATION OF ENVIRONMENTAL HAZARDS contains papers presented at two successful one week workshops Confinement and Remediation of Environmental Hazards held on January 15 19 2000 and Resource Recovery February 9 13 2000 Both workshops were integral parts of the IMA annual program on Mathematics in Reactive Flow and Transport Phenomena 1999 2000 We would like to thank John Chadam University of Pittsburgh Al Cunningham Montana State University Richard E Ewing Texas A M University Peter Ortoleva Indiana University and Mary Fanett Wheeler TICAM The University of Texas at Austin for their excellent work as organizers of the meetings and for editing the proceedings We take this opportunity to thank the National Science Foundation for their support of the IMA Series Editors Douglas N Arnold Director of the IMA Fadil Santosa Deputy Director of the IMA v PREFACE Advances in resource recovery and confinement remediation of environmental hazards requires a coordinated interdisciplinary effort involving mathematicians scientists and engineers The intent of this collection of papers is to summarize recent theoretical computational and experimental advances in the theory of phenomena in porous media with the intent to identify similarities and differences concerning applications related to both resource recovery and confinement and remediation of environmental hazards      **Mixed Integer Nonlinear Programming** Jon Lee, Sven Leyffer, 2011-12-02 Many engineering

operations and scientific applications include a mixture of discrete and continuous decision variables and nonlinear relationships involving the decision variables that have a pronounced effect on the set of feasible and optimal solutions Mixed integer nonlinear programming MINLP problems combine the numerical difficulties of handling nonlinear functions with the challenge of optimizing in the context of nonconvex functions and discrete variables MINLP is one of the most flexible modeling paradigms available for optimization but because its scope is so broad in the most general cases it is hopelessly intractable Nonetheless an expanding body of researchers and practitioners including chemical engineers operations researchers industrial engineers mechanical engineers economists statisticians computer scientists operations managers and mathematical programmers are interested in solving large scale MINLP instances

### **Towards Higher Categories** John C.

Baez,J. Peter May,2009-09-24 The purpose of this book is to give background for those who would like to delve into some higher category theory It is not a primer on higher category theory itself It begins with a paper by John Baez and Michael Shulman which explores informally by analogy and direct connection how cohomology and other tools of algebraic topology are seen through the eyes of  $n$  category theory The idea is to give some of the motivations behind this subject There are then two survey articles by Julie Bergner and Simona Paoli about infinity 1 categories and about the algebraic modelling of homotopy  $n$  types These are areas that are particularly well understood and where a fully integrated theory exists The main focus of the book is on the richness to be found in the theory of bicategories which gives the essential starting point towards the understanding of higher categorical structures An article by Stephen Lack gives a thorough but informal guide to this theory A paper by Larry Breen on the theory of gerbes shows how such categorical structures appear in differential geometry This book is dedicated to Max Kelly the founder of the Australian school of category theory and an historical paper by Ross Street describes its development

### **Handbook of Geomathematics** Willi Freeden,M. Zuhair Nashed,Thomas

Sonar,2010-08-13 During the last three decades geosciences and geo engineering were influenced by two essential scenarios First the technological progress has changed completely the observational and measurement techniques Modern high speed computers and satellite based techniques are entering more and more all geodisciplines Second there is a growing public concern about the future of our planet its climate its environment and about an expected shortage of natural resources Obviously both aspects viz efficient strategies of protection against threats of a changing Earth and the exceptional situation of getting terrestrial airborne as well as spaceborne data of better and better quality explain the strong need of new mathematical structures tools and methods Mathematics concerned with geoscientific problems i e Geomathematics is becoming increasingly important The Handbook Geomathematics as a central reference work in this area comprises the following scientific fields I observational and measurement key technologies II modelling of the system Earth geosphere cryosphere hydrosphere atmosphere biosphere III analytic algebraic and operator theoretic methods IV statistical and stochastic methods V computational and numerical analysis methods VI historical background and future perspectives

Atmospheric Modeling David P. Chock, Gregory R. Carmichael, 2002-07-31 This volume contains refereed papers submitted by international experts who participated in the Atmospheric Modeling workshop March 15-19 2000 at the Institute for Mathematics and Its Applications IMA at the University of Minnesota. The papers cover a wide range of topics presented in the workshop. In particular, mathematical topics include a performance comparison of operator splitting and non-splitting methods, time-stepping methods to preserve positivity and consideration of multiple timescale issues in the modeling of atmospheric chemistry, a fully 3D adaptive grid method, impact of grid resolution on model predictions, testing the robustness of different flow fields, modeling and numerical methods in four-dimensional variational data assimilation and parallel computing. Modeling topics include the development of an efficient self-contained global circulation chemistry transport model and its applications, the development of a modal aerosol model and the modeling of the emissions and chemistry of monoterpenes that lead to the formation of secondary organic aerosols. The volume provides an excellent cross-section of current research activities in atmospheric modeling.

### **Control Theory of Partial Differential Equations**

Guenter Leugering, Oleg Imanuvilov, Bing-Yu Zhang, Roberto Triggiani, 2005-05-27 The field of control theory in PDEs has broadened considerably as more realistic models have been introduced and investigated. This book presents a broad range of recent developments, new discoveries and mathematical tools in the field. The authors discuss topics such as elasticity, thermoelasticity, aeroelasticity, interactions between fluids and

Efficient Numerical Methods and Information-Processing Techniques for Modeling Hydro- and Environmental Systems Reinhard Hinkelmann, 2006-08-10 Numerical simulation models have become indispensable in hydro and environmental sciences and engineering. This monograph presents a general introduction to numerical simulation in environment water based on the solution of the equations for groundwater flow and transport processes for multiphase and multicomponent flow and transport processes in the subsurface as well as for flow and transport processes in surface waters. It displays in detail the state of the art of discretization and stabilization methods, e.g. finite difference, finite element and finite volume methods, parallel methods and adaptive methods as well as fast solvers with particular focus on explaining the interactions of the different methods. The book gives a brief overview of various information processing techniques and demonstrates the interactions of the numerical methods with the information processing techniques in order to achieve efficient numerical simulations for a wide range of applications in environment water.

**Membrane Transport and Renal Physiology** Harold E. Layton, Alan M. Weinstein, 2002-08-06 The papers in this volume arose out of the workshop Membrane Transport and Renal Physiology which was conducted as part of the IMA 1998-1999 program year Mathematics in Biology. The workshop brought together physiologists, biophysicists and applied mathematicians who share a common interest in solute and water transport in biological systems, especially in the integrated function of the kidney. Solute and water transport through cells involves fluxes across two cell membranes, usually via specialized proteins that are integral membrane components. By means of mathematical representations, transport fluxes can

be related to transmembrane solute concentrations and electrochemical driving forces. At the next level of functional integration these representations can serve as key components for models of renal transcellular transport. Ultimately simulations can be developed for transport dependent aspects of overall renal function. Workshop topics included solute fluxes through ion channels cotransporters and metabolically driven ion pumps transport across fiber matrix and capillary membranes coordinated transport by renal epithelia the urine concentrating mechanism and intra renal hemodynamic control. This volume will be of interest to biological and mathematical scientists who would like a view of recent mathematical efforts to represent membrane transport and its role in renal function.

**Mathematical Approaches for Emerging and Reemerging Infectious Diseases: Models, Methods, and Theory** Carlos Castillo-Chavez, Sally Blower, Pauline van den Driessche, Denise Kirschner, Abdul-Aziz Yakubu, 2012-12-06. This IMA Volume in Mathematics and its Applications MATHEMATICAL APPROACHES FOR EMERGING AND REEMERGING INFECTIOUS DISEASES MODELS AND THEORY METHODS is based on the proceedings of a successful one week workshop. The proceedings of the two day tutorial which preceded the workshop Introduction to Epidemiology and Immunology appears as IMA Volume 125. Mathematical Approaches for Emerging and Reemerging Infectious Diseases: An Introduction. The tutorial and the workshop are integral parts of the September 1998 to June 1999 IMA program on MATHEMATICS IN BIOLOGY. I would like to thank Carlos Castillo Chavez, Director of the Mathematical and Theoretical Biology Institute and a member of the Departments of Biometrics, Statistics and Theoretical and Applied Mechanics, Cornell University; Sally M. Blower, Biomathematics, UCLA School of Medicine; Pauline van den Driessche, Mathematics and Statistics, University of Victoria; and Denise Kirschner, Microbiology and Immunology, University of Michigan Medical School for their superb roles as organizers of the meetings and editors of the proceedings. Carlos Castillo Chavez especially made a major contribution by spearheading the editing process. I am also grateful to Kenneth L. Cooke, Mathematics, Pomona College for being one of the workshop organizers and to Abdul Aziz Yakubu, Mathematics, Howard University for serving as co editor of the proceedings. I thank Simon A. Levin, Ecology and Evolutionary Biology, Princeton University for providing an introduction.

**Mathematical Models for Biological Pattern Formation** Philip K. Maini, Hans G. Othmer, 2012-12-06. This 121st IMA volume entitled MATHEMATICAL MODELS FOR BIOLOGICAL PATTERN FORMATION is the first of a new series called FRONTIERS IN APPLICATION OF MATHEMATICS. The FRONTIERS volumes are motivated by IMA programs and workshops but are specially planned and written to provide an entree to and assessment of exciting new areas for the application of mathematical tools and analysis. The emphasis in FRONTIERS volumes is on surveys, exposition and outlook to attract more mathematicians and other scientists to the study of these areas and to focus efforts on the most important issues rather than papers on the most recent research results aimed at an audience of specialists. The present volume of peer reviewed papers grew out of the 1998-99 IMA program on Mathematics in Biology, in particular the Fall 1998 emphasis on Theoretical Problems in Developmental Biology and Immunol

ogy During that period there were two workshops on Pattern Formation and Morphogenesis organized by Professors Murray Maini and Othmer James Murray was one of the principal organizers for the entire year pro gram I am very grateful to James Murray for providing an introduction and to Philip Maini and Hans Othmer for their excellent work in planning and preparing this first FRONTIERS volume I also take this opportunity to thank the National Science Foundation whose financial support of the IMA made the Mathematics in Biology pro gram possible

**Symmetries and Overdetermined Systems of Partial Differential Equations** Michael Eastwood, Willard Miller, 2009-04-23 This three week summer program considered the symmetries preserving various natural geometric structures There are two parts to the proceedings The articles in the first part are expository but all contain significant new material The articles in the second part are concerned with original research All articles were thoroughly refereed and the range of interrelated work ensures that this will be an extremely useful collection

Mathematical Approaches for Emerging and Reemerging Infectious Diseases: An Introduction Carlos Castillo-Chavez, 2002-05-02 This book grew out of the discussions and presentations that began during the Workshop on Emerging and Reemerging Diseases May 17 21 1999 sponsored by the Institute for Mathematics and its Application IMA at the University of Minnesota with the support of NIH and NSF The workshop started with a two day tutorial session directed at ecologists epidemiologists immunologists mathematicians and scientists interested in the study of disease dynamics The core of this first volume Volume 125 covers tutorial and research contributions on the use of dynamical systems deterministic discrete delay PDEs and ODEs models and stochastic models in disease dynamics The volume includes the study of cancer HIV pertussis and tuberculosis Beginning graduate students in applied mathematics scientists in the natural social or health sciences or mathematicians who want to enter the fields of mathematical and theoretical epidemiology will find this book useful

Decision Making Under Uncertainty Claude Greengard, Andrzej Ruszczyński, 2012-12-06 In the ideal world major decisions would be made based on complete and reliable information available to the decision maker We live in a world of uncertainties and decisions must be made from information which may be incomplete and may contain uncertainty The key mathematical question addressed in this volume is how to make decision in the presence of quantifiable uncertainty The volume contains articles on model problems of decision making process in the energy and power industry when the available information is noisy and or incomplete The major tools used in studying these problems are mathematical modeling and optimization techniques especially stochastic optimization These articles are meant to provide an insight into this rapidly developing field which lies in the intersection of applied statistics probability operations research and economic theory It is hoped that the present volume will provide entry to newcomers into the field and stimulation for further research

**Mathematics of the Internet** Brenda Dietrich, Rakesh V. Vohra, Patricia Brick, 2001-12-14 The use of the internet for commerce has spawned a variety of auctions marketplaces and exchanges for trading everything from bandwidth to books Mechanisms for bidding agents dynamic pricing and combinatorial bids are being implemented in support of internet based

auctions giving rise to new versions of optimization and resource allocation models This volume a collection of papers from an IMA Hot Topics workshop in internet auctions includes descriptions of real and proposed auctions complete with mathematical model formulations theoretical results solution approaches and computational studies This volume also provides a mathematical programming perspective on open questions in auction theory and provides a glimpse of the growing area of dynamic pricing      Computational Modeling in Biological Fluid Dynamics Lisa J. Fauci, Shay Gueron, 2012-12-06 This IMA Volume in Mathematics and its Applications COMPUTATIONAL MODELING IN BIOLOGICAL FLUID DYNAMICS is based on the proceedings of a very successful workshop with the same title The workshop was an integral part of the September 1998 to June 1999 IMA program on MATHEMATICS IN BIOLOGY I would like to thank the organizing committee Lisa J Fauci of Tulane University and Shay Gueron of Technion Israel Institute of Technology for their excellent work as organizers of the meeting and for editing the proceedings I also take this opportunity to thank the National Science Foundation NSF whose financial support of the IMA made the Mathematics in Biology program possible Willard Miller Jr Professor and Director Institute for Mathematics and its Applications University of Minnesota 400 Lind Hall 207 Church St SE Minneapolis MN 55455 0436 612 624 6066 FAX 612 626 7370 miller ima umn edu World Wide Web <http://www.ima.umn.edu> v PREFACE A unifying theme in biological fluid dynamics is the interaction of moving elastic boundaries with a surrounding fluid A complex dynamical system describes the motion of red blood cells through the circulatory system the movement of spermatazoa in the reproductive tract cilia of microorganisms or a heart pumping blood The revolution in computational technology has allowed tremendous progress in the study of these previously intractable fluid structure interaction problems      *Multiple-Time-Scale Dynamical Systems* Christopher K.R.T. Jones, Alexander I. Khibnik, 2012-12-06 Systems with sub processes evolving on many different time scales are ubiquitous in applications chemical reactions electro optical and neuro biological systems to name just a few This volume contains papers that expose the state of the art in mathematical techniques for analyzing such systems Recently developed geometric ideas are highlighted in this work that includes a theory of relaxation oscillation phenomena in higher dimensional phase spaces Subtle exponentially small effects result from singular perturbations implicit in certain multiple time scale systems Their role in the slow motion of fronts bifurcations and jumping between invariant tori are all explored here Neurobiology has played a particularly stimulating role in the development of these techniques and one paper is directed specifically at applying geometric singular perturbation theory to reveal the synchrony in networks of neural oscillators      **Compatible Spatial Discretizations** Douglas N. Arnold, Pavel B. Bochev, Richard B. Lehoucq, Roy A. Nicolaides, Mikhail Shashkov, 2007-01-26 The IMA Hot Topics workshop on compatible spatial discretizations was held in 2004 This volume contains original contributions based on the material presented there A unique feature is the inclusion of work that is representative of the recent developments in compatible discretizations across a wide spectrum of disciplines in computational science Abstracts and presentation slides from the



workshop can be accessed on the internet *Bifurcation Theory and Spatio-Temporal Pattern Formation* Wayne Nagata, Navaratnam Sri Namachchivaya, 2006-10-03 Nonlinear dynamical systems and the formation of spatio temporal patterns play an important role in current research on partial differential equations This book contains articles on topics of current interest in applications of dynamical systems theory to problems of pattern formation in space and time Topics covered include aspects of lattice dynamical systems convection in fluid layers with large aspect ratios mixed mode oscillations and canards bacterial remediation of waste gyroscopic systems data clustering and the second part of Hilbert's 16th problem Most of the book consists of expository survey material and so can serve as a source of convenient entry points to current research topics in nonlinear dynamics and pattern formation This volume arose from a workshop held at the Fields Institute in December of 2003 honoring Professor William F Langford's fundamental work on the occasion of his sixtieth birthday Information for our distributors Titles in this series are copublished with the Fields Institute for Research in Mathematical Sciences Toronto Ontario Canada

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