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activities and discusses the challenges facing these lakes such as shrinking pollution degradation and adaptive management Further topics include hydrodynamics and modeling techniques as well as strategies for the sustainable development of these valuable resources The book closes with a concise summary of the conclusions and recommendations presented in the chapters As such it offers an invaluable resource for the academic community and postgraduate students as well as for environmental managers and policymakers Introduction to the Physical and Biological Oceanography of Shelf Seas John H. Simpson, Jonathan Sharples, 2012-03-29 In this exciting and innovative textbook two leading oceanographers bring together the fundamental physics and biology of the coastal ocean in a quantitative but accessible way for undergraduate and graduate students Shelf sea processes are comprehensively explained from first principles using an integrated approach to oceanography that helps build a clear understanding of how shelf sea physics underpins key biological processes in these environmentally sensitive regions Using many observational and model examples worked problems and software tools the authors explain the range of physical controls on primary biological production and shelf sea ecosystems Boxes throughout the book present extra detail for each topic and non mathematical summary points are provided for physics sections allowing students to develop an intuitive understanding The book is fully supported by extensive online materials including worked solutions to end of chapter exercises additional homework exam problems with solutions and simple MATLAB and FORTRAN Advanced Numerical Modeling and Data Assimilation Techniques for Tropical Cyclone models for running simulations Predictions U.C. Mohanty, Sundararaman.G. Gopalakrishnan, 2016-11-21 This book deals primarily with monitoring prediction and understanding of Tropical Cyclones TCs It was envisioned to serve as a teaching and reference resource at universities and academic institutions for researchers and post graduate students It has been designed to provide a broad outlook on recent advances in observations assimilation and modeling of TCs with detailed and advanced information on genesis intensification movement and storm surge prediction Specifically it focuses on i state of the art observations for advancing TC research ii advances in numerical weather prediction for TCs iii advanced assimilation and vortex initialization techniques iv ocean coupling v current capabilities to predict TCs and vi advanced research in physical and dynamical processes in TCs The chapters in the book are authored by leading international experts from academic research and operational environments The book is also expected to stimulate critical thinking for cyclone forecasters and researchers managers policy makers and graduate and post graduate students to carry out future research in the field of TCs Chaotic Flows Oleg G. Bakunin, 2011-08-29 The book introduces readers to and summarizes the current ideas and theories about the basic mechanisms for transport in chaotic flows Typically no single paradigmatic approach exists as this topic is relevant for fields as diverse as plasma physics geophysical flows and various branches of engineering Accordingly the dispersion of matter in chaotic or turbulent flows is analyzed from different perspectives Partly based on lecture courses given by the author this book addresses both graduate students and researchers in search of a high level but approachable and broad introduction to

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