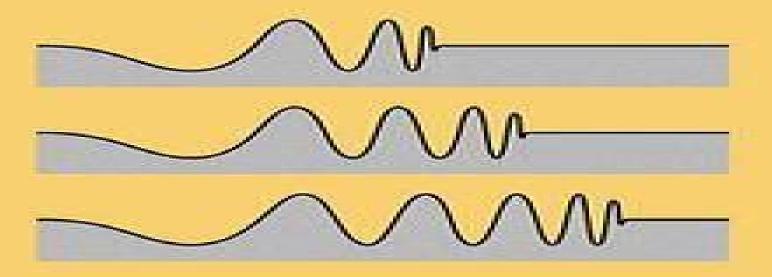
# Dale R. Durran

NUMERICAL METHODS FOR WAVE EQUATIONS IN GEOPHYSICAL FLUID DYNAMICS





# Numerical Methods For Wave Equations In Geophysical Fluid Dynamics

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guide to the essential algorithms and computational aspects of data processing covering the theory and methods of seismic imaging The first part introduces an extensive online library of MATLAB seismic data processing codes maintained by the CREWES project at the University of Calgary Later chapters then focus on digital signal theory and relevant aspects of wave propagation and seismic modelling followed by deconvolution and seismic migration methods Presenting a rigorous explanation of how to construct seismic images it provides readers with practical tools and codes to pursue research projects and analyses It is ideal for advanced students and researchers in applied geophysics and for practicing exploration geoscientists in the oil and gas industry Mathematical Methods in the Earth and Environmental Sciences Adrian Burd, 2019-04-18 An accessible introduction to the mathematical methods essential for understanding processes in the Earth and environmental sciences A Mathematical Introduction to Fluid Mechanics Alexandre J. Chorin, Jerrold E. Marsden, 2013-11-27 Mathematics is playing an ever more important role in the physical and biological sciences provoking a blurring of boundaries between scientific disciplines and a resurgence of interest in the modern as weil as the classical techniques of applied mathematics This renewal of interest bothin research and teaching has led to the establishment of the series Texts in Applied Mathematics TAM The development of new courses is a natural consequence of a high Ievel of excitement on the research frontier as newer techniques such as numerical and symbolic computer systems dynamical systems and chaos mix with and reinforce the traditional methods of applied mathematics. Thus the purpose of this textbook series is to meet the current and future needs of these advances and encourage the teaching of new courses TAM will publish textbooks suitable for use in advanced undergraduate and beginning graduate courses and will complement the Applied Mathematical Seiences AMS series whichwill focus on advanced textbooks and research level monographs Preface This book is based on a one term coursein fluid mechanics originally taught in the Department of Mathematics of the U niversity of California Berkeley during the spring of 1978 The goal of the course was not to provide an exhaustive account of fluid mechanics nor to assess the engineering value of various approximation procedures Computational Methods for the Atmosphere and the Oceans Roger Temam, Joe Tribbia, 2009-06-16 This book provides a survey of the frontiers of research in the numerical modeling and mathematical analysis used in the study of the atmosphere and oceans The details of the current practices in global atmospheric and ocean models the assimilation of observational data into such models and the numerical techniques used in theoretical analysis of the atmosphere and ocean are among the topics covered Truly interdisciplinary scientific interactions between specialties of atmospheric and ocean sciences and applied and computational mathematics Uses the approach of computational mathematicians applied and numerical analysts and the tools appropriate for unsolved problems in the atmospheric and oceanic sciences Contributions uniquely address central problems and provide a survey of the frontier of research The Mathematical Theory of Finite Element Methods Susanne Brenner, L. Ridgway Scott, 2013-03-14 Mathematics is playing an ever more important role in the physical and biological sciences provoking a

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