Modal Array Signal Processing Principles And Applications Of Acoustic Wavefield Decomposition Lecture Notes In Control And Information Sciences

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based on lectures given at a one week summer school held at the university of southampton july 2003

this book covers the theory of multidimensional signals and systems and related practical aspects it extends the properties and mathematical tools of one dimensional signals and systems to multiple dimensions and covers relevant timeless topics including multidimensional transformations multidimensional sampling as well as discrete multidimensional systems a special emphasis is placed on physical systems described by partial differential equations the construction of suitable integral transformations and the implementation of the corresponding discrete time algorithms to this end signal spaces and functional transformations are introduced at a mathematical level provided by undergraduate programs in engineering and science the presentation takes a comprehensive illustrative and educational approach without reference to a particular application field instead the book builds a solid theoretical concept of multidimensional signals and systems and shows the application to various problems relevant for practical scenarios

the 13 lectures are intended to be accessible to new graduate students of mathematics sacrificing some detail in order to offer an accessible introduction to the fundamentals of stability that can provide a foundation for further study presenters from the us and britain cover preserving qualitative stability features and structural stability and investigating physical stability and model stability annotation copyrighted by book news inc portland or

lectures on geophysical fluid dynamics offers an introduction to several topics in geophysical fluid dynamics including the theory of large scale ocean circulation geostrophic turbulence and hamiltonian fluid dynamics since each chapter is a self contained introduction to its particular topic the book will be useful to students and researchers in diverse scientific fields

this book presents the theory of waves propagation in a fluid saturated porous medium a biot medium and its application in applied geophysics in particular a derivation of absorbing boundary conditions in viscoelastic and poroelastic media is presented which later is employed in the applications the partial differential equations describing the propagation of waves in biot media are solved using the finite element method fem waves propagating in a biot medium suffer attenuation and dispersion effects in particular the fast compressional and shear waves are converted to slow diffusion type waves at mesoscopic scale heterogeneities on the order of centimeters effect usually occurring in the seismic range of frequencies in some cases a biot medium presents a dense set of fractures oriented in preference directions when the average distance between fractures is much smaller than the wavelengths of the travelling fast compressional and shear waves the medium behaves as an effective viscoelastic and anisotropic medium at the macroscale the book presents a procedure determine the coefficients of the effective medium employing a collection of time harmonic compressibility and shear experiments in the context of numerical rock physics each experiment is associated with a boundary value problem that is solved using the fem this approach offers an alternative to laboratory observations with the advantages that they are inexpensive repeatable and essentially free from experimental errors the different topics are followed by illustrative examples of application in geophysical exploration in particular the effects

caused by mesoscopic scale heterogeneities or the presence of aligned fractures are taking into account in the seismic wave propagation models at the macroscale the numerical simulations of wave propagation are presented with sufficient detail as to be easily implemented assuming the knowledge of scientific programming techniques

this book deals with the problem of detecting and localizing multiple simultaneously active wideband acoustic sources by applying the notion of wavefield decomposition using circular and spherical microphone arrays a rigorous derivation of modal array signal processing algorithms for unambiguous source detection and localization as well as performance evaluations by means of measurements using an actual real time capable implementation are discussed

this book describes the state of the art in the field of modeling and solving numerically inverse problems of wave propagation and diffraction it addresses mathematicians physicists and engineers as well applications in such fields as acoustics optics and geophysics are emphasized of special interest are the contributions to two and three dimensional problems without reducing symmetries topics treated are the obstacle problem scattering by classical media and scattering by distributed media

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