

Data and Knowledge in a Changing World

J. O. Dubois · A. Gvishiani

Dynamic Systems and Dynamic Classification Problems in Geophysical Applications



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Jacques Octave Dubois, Alexei Gvishiani

**Dynamic Systems and Dynamic Classification Problems in Geophysical Applications** Jacques Octave Dubois, Alexei Gvishiani, 2013-03-13 This book is the latest volume in the series entitled Data and Knowledge in a Changing World published by the Committee on Data for Science and Technology CODATA of the International Council of Scientific Unions Icsu This series was established to collect together from many diverse fields the wealth of information pertaining to the intelligent exploitation of data in the conduct of science and technology This volume is the first in a two volume series that will discuss techniques for the analysis of natural dynamic systems and their applications to a variety of geophysical problems The present volume lays out the theoretical foun dations for these techniques The second volume will use these techniques in applications to fields such as seismology geodynamics geoelectricity ge omagnetism aeromagnetics topography and bathymetry. The book consists of two parts which describe two complementary ap proaches to the analysis of natural systems The first written by A Gvishi ani deals with dynamic pattern recognition It lays out the mathematical VI Foreword theory and the formalized algorithms that forms the basis for the classification of vector objects and the use of this classification in the study of dynamical systems with particular emphasis on the prediction of system behavior in space and time It discusses the construction of classification schemes and the evaluation of their stability and reliability Intelligence and Dynamic Systems for Geophysical Applications Alexej Gvishiani, Jacques O. Dubois, 2013-04-17 The book presents new clustering schemes dynamical systems and pattern recognition algorithms in geophysical geodynamical and natural hazard applications The original mathematical technique is based on both classical and fuzzy sets models Geophysical and natural hazard applications are mostly original However the artificial intelligence technique described in the book can be applied far beyond the limits of Earth science applications. The book is intended for research scientists tutors graduate students scientists in geophysics and engineers Heat-Mass Transfer and Geodynamics of the Lithosphere Valentina Svalova, 2021-04-09 This volume is devoted to investigation of all aspects of heat mass transfer processes at different scales and from various origins as well as the formation and evolution of geological structures These phenomena are linked to geophysical properties of rocks geothermal resources geothermics fluid dynamics stress state of the lithosphere deep geodynamics plate tectonics and seismicity among others The book consists of two main parts The first concerns heat mass transfer associated with natural and technogenic processes in the upper lithosphere The second deals with geodynamics and seismicity The collection of over 25 chapter from leading investigators in Russia is thus an important contribution to research on the lithosphere in connection with formation and evolution of geological structures heat and mass transfer processes in the lithosphere and their connection with deep Earth geodynamics Collects a range of research methodologies including application of modelling seismic tomography geological field works geological geophysical methods and in situ measurements through instrumentation Explains how a wide range of geological and geophysical phenomena

arising in the Earth's lithosphere can be investigated under the umbrella of a common approach to heat mass transfer processes Includes the latest research by more than 60 leading scientists from Russia Disaster Risk Reduction and Resilience Muneta Yokomatsu, Stefan Hochrainer-Stigler, 2020-07-01 This book provides insight on how disaster risk management can increase the resilience of society to various natural hazards. The multi dimensionality of resilience and the various different perspectives in regards to disaster risk reduction are taken explicitly into account by providing studies and approaches on different scales and ranging from natural science based methods to social science frameworks For all chapters special emphasis is placed on implementation aspects and specifically in regards to the targets and priorities for action laid out in the Sendai Framework for Disaster Risk Reduction The chapters provide also a starting point for interested readers on specific issues of resilience and therefore include extensive reference material and important future directions for Seismogenic Process Monitoring M. Ando, 2017-11-01 This volume covers near source monitoring of research seismogenic process in situ probing of active faults and techniques for seismogenic process monitoring It is the outcome of multi disciplinary investigations conducted over a large range of size scales Thermodynamic Modeling and Materials Data Engineering J.-P. Caliste, A. Truyol, Jack H. Westbrook, 2012-12-06 J P CALISTE A TRUYOL AND J WESTBROOK The Series Data and Knowledge in a Changing World exemplifies CODATA's primary purpose of collecting from widely different fields a wealth of information on efficient exploitation of data for progress in science and technology and making that information available to scientists and engineers A separate and complementary CODATA Reference Series will present Directories of compiled and evaluated data and Glossaries of data related terms The present book Thermodynamic Modeling and Materials Data Engineering discusses thermodynamic structural systemic and heuristic approaches to the modeling of complex materials behavior in condensed phases both fluids and solids in order to evaluate their potential applications Itwas inspired by the Symposium on Materials and Structural Properties held during the 14th International CODATA Conference in Chambery France The quality of the contributions to this Symposium motivated us to present a coherent book of interest to the field Updated contributions inspired by Symposium discussions and selections from other CODATA workshops concerning material properties data and Computer Aided Design combine to highlight the complexity of material data issues on experimental theoretical and simulation levels Articles were selected for their pertinence in three areas Complex data leading to interesting developments and tools such as new developments in state equations and their applications prediction and validation of physical and energy data by group correlations for pure compounds modeling and prediction of mixture properties American Book Publishing Record Cumulative 1998 R R Bowker Publishing, 1999-03 **Predictability** of Complex Dynamical Systems Yurii A. Kravtsov, James B. Kadtke, 2012-12-06 This is a book book for researchers and practitioners interested in modeling prediction and forecasting of natural systems based on nonlinear dynamics It is a practical guide to data analysis and to the development of algorithms especially for complex systems Topics such as the

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