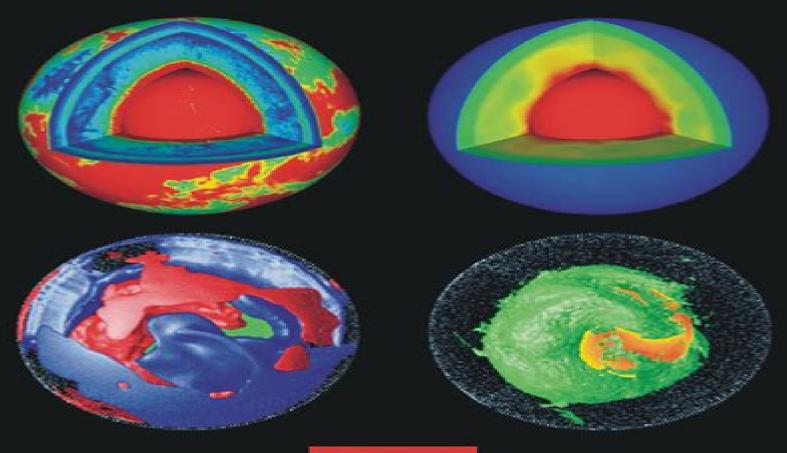
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Computational Methods for GEODYNAMICS



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Introduction to Numerical Geodynamic Modelling Taras Gerya, 2019-05-23 The second edition of this popular introduction to numerical geodynamic modelling theory and applications features four new chapters Based on the author s experience of teaching the material and including practical exercises and MATLAB examples this user friendly resource encourages students and researchers to experiment with geodynamic models Encyclopedia of Geology, 2020-12-16 Encyclopedia of Geology Second Edition presents in six volumes state of the art reviews on the various aspects of geologic research all of which have moved on considerably since the writing of the first edition New areas of discussion include extinctions origins of life plate tectonics and its influence on faunal provinces new types of mineral and hydrocarbon deposits new methods of dating rocks and geological processes Users will find this to be a fundamental resource for teachers and students of geology as well as researchers and non geology professionals seeking up to date reviews of geologic research Provides a comprehensive and accessible one stop shop for information on the subject of geology explaining methodologies and technical jargon used in the field Highlights connections between geology and other physical and biological sciences tackling research problems that span multiple fields Fills a critical gap of information in a field that has seen significant progress in past years Presents an ideal reference for a wide range of scientists in earth and environmental areas of study

Data-Driven Numerical Modelling in Geodynamics: Methods and Applications Alik Ismail-Zadeh, Alexander Korotkii, Igor Tsepelev, 2016-05-17 This book describes the methods and numerical approaches for data assimilation in geodynamical models and presents several applications of the described methodology in relevant case studies The book starts with a brief overview of the basic principles in data driven geodynamic modelling inverse problems and data assimilation methods which is then followed by methodological chapters on backward advection variational or adjoint and quasi reversibility methods The chapters are accompanied by case studies presenting the applicability of the methods for solving geodynamic problems namely mantle plume evolution lithosphere dynamics in and beneath two distinct geological domains the south eastern Carpathian Mountains and the Japanese Islands salt diapirism in sedimentary basins and volcanic lava flow Applications of data driven modelling are of interest to the industry and to experts dealing with geohazards and risk

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