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Seismic Velocity Modeling 2012 5 Installation Guide Our optimized model shows that the total seismic moment was 3.46×10^{20} N m, equals to a magnitude of M_w 7.6, and that the dominant mechanism was pure thrust with a maximum slip of 3.5 m, which occurred at a depth of 25 km below the epicentre (Fig. 3a).

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Seismic Velocity Modeling 2012 5 Coherent seismic energy is evident from 1 to 5 hertz beginning approximately 5 hours before the flood impacted Punakha village, which originated at the source lake and advanced down the valley during the GLOF duration.

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24 (2012) 5 Fig 3: A simple 2D velocity/density model with horizontal layers only.

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Fig. 4: Dyke-fault and anticline velocity models. Seismic Velocity Modeling 2012 5 Seismic noise interferometry is an exciting technique for studying volcanoes, providing a continuous measurement of seismic velocity changes (dv/v), which

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Seismic Velocity Modeling 2012 5 24 (2012) 5 Fig 3: A simple 2D velocity/density model with horizontal layers only. Fig. 4: Dyke-fault and anticline velocity models. Seismic Velocity Modeling 2012 5 Seismic noise interferometry is an exciting technique for studying volcanoes, providing a continuous measurement of seismic velocity changes ($dv \dots$

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This book addresses time-bound geotectonic evolution of the various geological terrains of the Indian continent, on the basis of integrated geophysical studies, like

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seismic, seismological, gravity, magnetic, magnetotelluric and heat flow, carried out over the past five decades. Further, it discusses elastic and petrophysical properties of the Earth's crust relevant to geological investigations. The book also shares latest findings on the geodynamic development of the Indian shield and nearby continental margins, including Arabian Sea.

Seismic reservoir characterization aims to build 3-dimensional models of rock and fluid properties, including elastic and petrophysical variables, to describe and monitor the state of the subsurface for hydrocarbon exploration and production and for CO₂ sequestration. Rock physics modeling and seismic wave propagation theory provide a set of physical equations to predict the seismic response of subsurface rocks based on their elastic and petrophysical properties. However, the rock and fluid properties are generally unknown and surface geophysical measurements are often the only available data to constrain reservoir models far away from well control. Therefore, reservoir properties are generally estimated from geophysical data as a solution of an inverse problem, by combining rock physics and seismic models with inverse theory and geostatistical methods, in the context of the geological modeling of the subsurface. A probabilistic approach to the inverse problem provides the probability distribution of rock and fluid properties given the measured geophysical data and allows quantifying the uncertainty of the predicted results. The reservoir characterization problem includes both discrete properties, such as facies or rock types, and continuous

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properties, such as porosity, mineral volumes, fluid saturations, seismic velocities and density. *Seismic Reservoir Modeling: Theory, Examples and Algorithms* presents the main concepts and methods of seismic reservoir characterization. The book presents an overview of rock physics models that link the petrophysical properties to the elastic properties in porous rocks and a review of the most common geostatistical methods to interpolate and simulate multiple realizations of subsurface properties conditioned on a limited number of direct and indirect measurements based on spatial correlation models. The core of the book focuses on Bayesian inverse methods for the prediction of elastic petrophysical properties from seismic data using analytical and numerical statistical methods. The authors present basic and advanced methodologies of the current state of the art in seismic reservoir characterization and illustrate them through expository examples as well as real data applications to hydrocarbon reservoirs and CO₂ sequestration studies.

This volume highlights the career of Dr. Gaku Kimura, professor emeritus of geosciences at the University of Tokyo, by showing the spectrum of research required to understand these dynamic environments and the range of research he has inspired. The first three chapters provide context for the growth of accretionary prisms by examining the thermal structure of the ocean crust, and the sedimentary facies and potential fluid pathways in the Shikoku Basin. Next, two chapters look at the regional-scale structure of the plate boundary and the

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rheology and hysteresis of the hanging wall of the subduction zone in SW Japan. The following five chapters discuss the progressive deformation and thermal maturation of sediments along accretionary margins from Japan to New Zealand to western North America. The final two chapters look at the deformation processes near the subducting plate interface with the last chapter proposing a link between outcrop-scale observations and seismic slip.

The book covers multi-disciplinary topics in observational, computational and applied geophysics in aspects of solid earth system. The authors provide an up-to-date overview for methods and techniques in seismology, with a focus on fault structure, strong ground motion and earthquake forecast based on full-3D earth structure models. Abundant of case studies make it a practical reference for researchers in seismology and applied geophysics.

Using full-colour palaeogeographical maps from the Cambrian to the present, this interdisciplinary volume explains how plate motions and surface volcanism are linked to processes in the Earth's mantle, and to climate change and the evolution of the Earth's biota. These new and very detailed maps provide a complete and integrated Phanerozoic story of palaeogeography. They illustrate the development of all the major mountain-building orogenies. Old lands, seas, ice caps, volcanic regions, reefs, and coal beds are highlighted on the maps, as well as faunal and floral provinces. Many other original diagrams show sections from the Earth's core,

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through the mantle, and up to the lithosphere, and how Large Igneous Provinces are generated, helping to understand how plates have appeared, moved, and vanished through time. Supplementary resources are available online, making this an invaluable reference for researchers, graduate students, professional geoscientists and anyone interested in the geological history of the Earth.

Microseismic Imaging of Hydraulic Fracturing: Improved Engineering of Unconventional Shale Reservoirs (SEG Distinguished Instructor Series No. 17) covers the use of microseismic data to enhance engineering design of hydraulic fracturing and well completion. The book, which accompanies the 2014 SEG Distinguished Instructor Short Course, describes the design, acquisition, processing, and interpretation of an effective microseismic project. The text includes a tutorial of the basics of hydraulic fracturing, including the geologic and geomechanical factors that control fracture growth. In addition to practical issues associated with collecting and interpreting microseismic data, potential pitfalls and quality-control steps are discussed. Actual case studies are used to demonstrate engineering benefits and improved production through the use of microseismic monitoring. Providing a practical user guide for survey design, quality control, interpretation, and application of microseismic hydraulic fracture monitoring, this book will be of interest to geoscientists and engineers involved in development of unconventional reservoirs.

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The NAG-TEC project was a collaborative effort by the British Geological Survey, the Geological Survey of Denmark and Greenland, the Geological Survey of Ireland, the Geological Survey of the Netherlands, the Geological Survey of Northern Ireland, the Geological Survey of Norway, Iceland GeoSurvey and the Faroese Geological Survey (Jarðfeingi), along with a number of academic partners and significant support from industry. The main focus was to investigate the tectonic evolution of the region with a particular emphasis on basin evolution along conjugate margins. A key outcome was the development of a new tectonostratigraphic atlas and database that includes comprehensive geological and geophysical information relevant for understanding the Devonian to present evolution of the NE Atlantic margins. These provide the foundation upon which ongoing research and exploration of the area can build. This Special Publication provides some of the first scientific results and analysis based on the project, including regional stratigraphic analysis and correlations, crustal structure and interpretation of geophysical data sets, plate kinematics and the evolution of igneous provinces.

The 1995 to present eruption of Soufrière Hills Volcano on Montserrat is one of the most important and best-studied eruptions of an explosive andesitic volcano. This volume presents scientific findings from the period between 2000 and 2010; it follows on from Memoir 21, which focused on the early years of activity between 1995 and 1999. In addition to descriptions and analysis of the growth, collapse and

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explosions associated with lava domes, there are papers on the deformation of the volcano caused by the deep magma, the petrology and geochemistry of the lavas and associated gases. Of particular note are: an overview of the insights into the deep structure of the volcano that resulted from a major international seismic tomography experiment; and an analysis of the quantitative risk assessment process that has run now for most of the eruption, the longest such continuous assessment in the world.

Southwest Asia is one of the most remarkable regions on Earth in terms of active faulting and folding, large-magnitude earthquakes, volcanic landscapes, petroliferous foreland basins, historical civilizations as well as geologic outcrops that display the protracted and complex 540 m.y. stratigraphic record of Earth's Phanerozoic Era. Emerged from the birth and demise of the Paleo-Tethys and Neo-Tethys oceans, southwest Asia is currently the locus of ongoing tectonic collision between the Eurasia-Arabia continental plates. The region is characterized by the high plateaus of Iran and Anatolia fringed by the lofty ranges of Zagros, Alborz, Caucasus, Taurus, and Pontic mountains; the region also includes the strategic marine domains of the Persian Gulf, Gulf of Oman, Caspian, and Mediterranean. This 19-chapter volume, published in honor of Manuel Berberian, a preeminent geologist from the region, brings together a wealth of new data, analyses, and frontier research on the geologic evolution, collisional tectonics, active deformation, and historical and modern seismicity of key areas in southwest Asia.

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"This memoir brings together results from a multidisciplinary study of the processes that have formed the highest, widest part of the Andean Cordilleran orogenic belt in northern Argentina and Chile. The region features a tectonically erosive forearc, protracted arc magmatism, a high-elevation hinterland plateau and strongly shortened retroarc thrust belt, and a Paleocene-Recent foreland basin system"--

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