

GeoComplexity  
and the  
Physics of

# EARTHQUAKES

John B. Rundle  
Donald L. Turcotte  
William Klein  
Editors

# Geocomplexity The Physics Of Earthquakes Geophysical Monograph Ser

**Theodosius Grigorievich Dobzhansky**



## **Geocomplexity The Physics Of Earthquakes Geophysical Monograph Ser:**

**Geocomplexity and the Physics of Earthquakes** John Rundle, John B. Rundle, Donald L. Turcotte, William Klein, 2000-01-10 Published by the American Geophysical Union as part of the Geophysical Monograph Series Volume 120 Earthquakes in urban centers are capable of causing enormous damage The January 16 1995 Kobe Japan earthquake was only a magnitude 6.9 event and yet produced an estimated 200 billion loss Despite an active earthquake prediction program in Japan this event was a complete surprise Similar scenarios are possible in Los Angeles San Francisco Seattle and other urban centers around the Pacific plate boundary The development of forecast or prediction methodologies for these great damaging earthquakes has been complicated by the fact that the largest events repeat at irregular intervals of hundreds to thousands of years resulting in a limited historical record that has frustrated phenomenological studies The papers in this book describe an emerging alternative approach which is based on a new understanding of earthquake physics arising from the construction and analysis of numerical simulations With these numerical simulations earthquake physics now can be investigated in numerical laboratories Simulation data from numerical experiments can be used to develop theoretical understanding that can be subsequently applied to observed data These methods have been enabled by the information technology revolution in which fundamental advances in computing and communications are placing vast computational resources at our disposal Earthquakes Rachel Abercrombie, Art McGarr, Hiroo Kanamori, Giulio Di Toro, 2006-01-10

Published by the American Geophysical Union as part of the Geophysical Monograph Series Volume 170 Earthquakes from the smallest to the largest release elastic strain energy Where does this energy go How much is radiated and how much is expended in other source processes such as overcoming fault friction Do large and small earthquakes differ with regard to rupture physics This book examines such questions and current debates from five vantage points How we measure earthquake energy Effects of earthquake size and tectonic setting Insights from numerical simulations Geological fault zone research The efficiency of the earthquake machine in terms of fault rupture friction and seismic phenomena Earthquakes Radiated Energy and the Physics of Faulting is the first book to present a systematic approach to understanding the energy changes associated with earthquakes Solid Earth scientists researchers and students especially those who work in seismology tectonophysics rock mechanics and geodesy will find this book an essential resource now and into the future

**Earthquakes** Rachel Abercrombie, 2006-01-10 Accompanying CD ROM contains the fieldguides prepared by Mark Swanson to both the Fort Foster and Two Lights fault zones Page viii *Active Global Seismology* Ibrahim Cemen, Yucel Yilmaz, 2017-03-06 Neotectonics involves the study of the motions and deformations of the Earth's crust that are current or recent in geologic time The Mediterranean region is one of the most important regions for neotectonics and related natural hazards This volume focuses on the neotectonics of the Eastern Mediterranean region which has experienced many major extensive earthquakes including the devastating Izmit Turkey earthquake on August 17 1999 The event lasted for 37 seconds

killing around 17 000 people injuring 44 000 people and leaving approximately half a million people homeless Since then several North American European and Turkish research groups have studied the neotectonics and earthquake potential of the region using different geological and geophysical methods including GPS studies geodesy and passive source seismology Some results from their studies were presented in major North American and European geological meetings This volume highlights the work involving the Eastern Mediterranean region which has one of the world s longest and best studied active strike slip horizontal motion faults the east west trending North Anatolian fault zone which is very similar to the San Andreas fault in California This volume features discussions of Widespread applications in measuring plate motion that have strong implications in predicting natural disasters like earthquakes both on a regional and a global scale Recent motions particularly those produced by earthquakes that provide insights on the physics of earthquake recurrence the growth of mountains orogenic movements and seismic hazards Unique methodical approaches in collecting tectonophysical data including field seismic experimental computer based and theoretical approaches Active Global Seismology is a valuable resource for geoscientists particularly in the field of tectonophysics geophysics geodynamics seismology structural geology environmental geology and geoengineering Read an interview with the editors to find out more <https://eos.org/editors-vox/neotectonics-and-earthquake-forecasting>

*Fault Zone Dynamic Processes* Marion Y. Thomas, Thomas M. Mitchell, Harsha S. Bhat, 2017-07-12 Earthquakes are some of the most dynamic features of the Earth This multidisciplinary volume presents an overview of earthquake processes and properties including the physics of dynamic faulting fault fabric and mechanics physical and chemical properties of fault zones dynamic rupture processes and numerical modeling of fault zones during seismic rupture This volume examines questions such as What are the dynamic processes recorded in fault gouge What can we learn about rupture dynamics from laboratory experiments How do on fault and off fault properties affect seismic ruptures How do fault zones evolve over time *Fault Zone Dynamic Processes Evolution of Fault Properties During Seismic Rupture* is a valuable resource for scientists researchers and students from across the geosciences interested in the earthquakes processes

**Earthquake Seismology** Hiroo Kanamori, 2025-01-01 *Earthquake Seismology* presents the most recent findings on the physics of earthquakes It includes chapters on seismicity studies from pre historic periods to the most modern studies on a global scale deep earthquakes nucleation stress transfer triggering hydrological processes and recently discovered slow slips at plate boundaries It also covers closely related fields including tsunami volcanic seismology and physics interaction between solid earth atmosphere and ionosphere Discussions on strong motion seismology and its social implications are also reviewed Self contained volume starts with an overview of the subject then explores each topic with in depth detail Extensive reference lists and cross references with other volumes to facilitate further research Full color figures and tables support the text and aid in understanding Content suited for both the expert and non expert

**Hydrological, Geochemical and Geophysical Changes Related to Earthquakes and Slow-Slip Events** Chi-Yu King, Michael

Manga,2018-11-12 It has been documented for many centuries that earthquakes and other tectonic processes have hydrological effects The magnitude and the spatial and temporal patterns of such signals recorded by scientific instruments in modern times have not always been straightforward to explain and hence remain the subject of active research especially those that might be precursors to earthquakes This volume contains 9 papers that present new observations on earthquake related hydrological geochemical and geophysical changes in Japan Taiwan Baja California in Mexico and mostly China one paper on laboratory rock mechanics study and a brief overview of Chinese research on earthquake prediction during the past 5 decades Some of the observed changes occurred several days before earthquakes and are explained with the consideration of heterogeneity of the earth's crust and earthquake related slow slip events with earthquake forecasting as a possible application

The Physics of Rock Failure and Earthquakes Mitiyasu Ohnaka,2013-04-11 This book provides a deeper understanding of earthquake processes based on laboratory derived physical laws and formulae for researchers professionals and graduate students

Earthquake Source Physics on Various Scales Adrien Oth, Kevin Mayeda, Luis Rivera,2014-11-24 Earthquake rupture is a process of remarkable complexity Over the past few decades scientists have become aware of its high variability on all scales as well as its wide dynamic range At the same time a thorough understanding of the seismic source process is a key element of reliable earthquake ground motion prediction The present book contains a comprehensive collection of contributions originating from the 2012 ECGS Workshop Earthquake Source Physics on Various Scales held in Luxembourg The seventeen articles in this volume cover theoretical and observational aspects of the earthquake source process ranging from tiny laboratory generated M 6 events to the source complexity and radiated energy of the world's greatest earthquakes Among other aspects the papers provide new insights into the relationship of earthquake recurrence time with fault frictional parameters how the results of lab based friction experiments relate to observational source studies and how geometrical source complexity can be quantified In particular several papers are devoted to the question whether small and large earthquakes scale self similarly or if they show differences in their dynamic source characteristics which is one of the most hotly debated aspects of modern seismology The volume provides an integrated view of the current state of the art knowledge on the earthquake source process on all scales and will be useful to students and professional researchers who are interested in these phenomena

**The Physics of Destructive Earthquakes** Frederick Thomas, Robert Chaney, Richard Tseng,2018-10-30 This book is a concise introduction to the interactions between earthquakes and human built structures buildings dams bridges power plants pipelines and more It focuses on the ways in which these interactions illustrate the application of basic physics principles and concepts including inertia force shear energy acceleration elasticity friction and stability It illustrates how conceptual and quantitative physics emerges in the day to day work of engineers drawing from examples from regions and events which have experienced very violent earthquakes with massive loss of life and property The authors of this book a physics educator a math educator and a geotechnical engineer have set off on what

might be considered a mining expedition searching for ways in which introductory physics topics and methods can be better connected with careers of interest to non physics majors They selected destructive earthquakes as a place to begin because they are interesting and because future engineers represent a significant portion of the non physics majors in introductory physics courses Avoiding the extremes of treating applied physics either as a purely hands on conceptual experience or as a lengthy capstone project for learners who have become masters the application in this book can be scattered throughout a broader physics course or individual learning experience

*Earthquake Seismology 2e: Treatise on Geophysics* Hiroo Kanamori, 2016      **Physics of the Earthquake Focus** Mikhail Aleksandrovich Sadovskii, 1985      **The Earth Beneath the Continents** Theodosius Grigorievich Dobzhansky, 1966      **Earthquake Thermodynamics and Phase Transformation in the Earth's Interior** Roman Teisseyre, Eugeniusz Majewski, 2000-10-19

A group of distinguished scientists contributes to the foundations of a new discipline in Earth sciences earthquake thermodynamics and thermodynamics of formation of the Earth's interior structures The predictive powers of thermodynamics are so great that those aspiring to model earthquake and the Earth's interior will certainly wish to be able to use the theory Thermodynamics is our only method of understanding and predicting the behavior of many environmental atmospheric and geological processes The need for Earth scientists to develop a functional knowledge of thermodynamic concepts and methodology is therefore urgent Sources of an entropy increase the dissipative and self organizing systems driving the evolution and dynamics of the Universe and Earth through irreversible processes The non linear interactions lead to the formation of fractal structures From the structural phase transformations the important interior boundaries emerge Non linear interactions between the defects in solids lead the authors to develop the physics of continua with a dense distribution of defects Disclinations and dislocations interact during a slow evolution as well as during rapid dynamic events like earthquakes Splitting the dynamic processes into the 2D fault plane and 3D surrounding space brings a new tool for describing the slip nucleation and propagation along the earthquake faults Seismic efficiency rupture velocity and complexity of seismic source zone are considered from different points of view fracture band earthquake model is developed on the basis of thermodynamics of line defects like dislocations Earthquake thermodynamics offers us a microscopic model of earthquake sources Physics of defects helps the authors describe and explain a number of precursory phenomena caused by the buildup of stresses Anomalies in electric polarization and electromagnetic radiation prior to earthquakes are considered from this point of view Through the thermodynamic approach the authors arrive at the fascinating question of possibility of earthquake prediction In general the Earth is considered here as a multicomponent system Transport phenomena as well as wave propagation and shock waves are considered in this system subjected also to chemical and phase transformations

Seismology and Structure of the Earth Barbara Romanowicz, Adam Dziewonski, 2010-04-20

Treatise on Geophysics Seismology and Structure of the Earth Volume 1 provides a comprehensive review of the state of knowledge on the Earth's structure and earthquakes It addresses various aspects of

structural seismology and its applications to other fields of Earth sciences The book is organized into four parts The first part principally covers theoretical developments and seismic data analysis techniques from the end of the nineteenth century until the present with the main emphasis on the development of instrumentation and its deployment The second part reviews the status of knowledge on the structure of the Earth's shallow layers starting with a global review of the Earth's crustal structure The third part focuses on the Earth's deep structure divided into its main units the upper mantle the transition zone and upper mantle discontinuities the D region at the base of the mantle and the Earth's core The fourth part comprises two chapters which discuss constraints on Earth structure from fields other than seismology mineral physics and geodynamics Self contained volume starts with an overview of the subject then explores each topic with in depth detail Extensive reference lists and cross references with other volumes to facilitate further research Full color figures and tables support the text and aid in understanding Content suited for both the expert and non expert

**Subduction Dynamics** Gabriele Morra, David A. Yuen, Scott D. King, Sang Mook Lee, Seth Stein, 2015-09-18 Subduction dynamics has been actively studied through seismology mineral physics and laboratory and numerical experiments Understanding the dynamics of the subducting slab is critical to a better understanding of the primary societally relevant natural hazards emerging from our planetary interior the megathrust earthquakes and consequent tsunamis Subduction Dynamics is the result of a meeting that was held between August 19 and 22 2012 on Jeju island South Korea where about fifty researchers from East Asia North America and Europe met Chapters treat diverse topics ranging from the response of the ionosphere to earthquake and tsunamis to the origin of mid continental volcanism thousands kilometers distant from the subduction zone from the mysterious deep earthquakes triggered in the interior of the descending slabs to the detailed pattern of accretionary wedges in convergent zones from the induced mantle flow in the deep mantle to the nature of the paradigms of earthquake occurrence showing that all of them ultimately are due to the subduction process Volume highlights include Multidisciplinary research involving geology mineral physics geophysics and geodynamics Extremely large scale numerical models with state of the art high performance computing facilities Overview of exceptional three dimensional dynamic representation of the evolution of the Earth interiors and of the earthquake and subsequent tsunami dynamics Global risk assessment strategies in predicting natural disasters This volume is a valuable contribution in earth and environmental sciences that will assist with understanding the mechanisms behind plate tectonics and predicting and mitigating future natural hazards like earthquakes volcanoes and tsunamis

**Physics of Destructive Earthquakes** Thomas Frederick, 2018 [Physics of Megathrust Earthquakes](#) Sylvain Barbot, 2020-04-24 This topical volume on the physics of megathrust earthquakes investigates many aspects of the earthquake phenomenon from the geodynamic setting of subduction zones to interseismic and postseismic deformation slow slip events dynamic rupture and tsunami generation The dynamics of the seismic cycle at megathrusts is rich in various types of earthquakes many of which only recently discovered Our early understanding of the earthquake

phenomenon was a type of stick slip motion where the fault is loaded by tectonic forces for an extended period followed by rapid failure. Extensive seismic and geodetic monitoring of subduction zones has revealed a much more varied seismic behavior where episodic fault slip can occur at any slip velocity between the background loading rate of the order of a few atoms per second and the fast seismic range about a meter per second. Events that fill the gap between slow creep and fast ruptures include a host of slow earthquakes. Subduction zones therefore provide a natural laboratory to better understand the physics of earthquakes and faulting. Previously published in Pure and Applied Geophysics Volume 176 Issue 9 2019. The chapters Interseismic Coupling and Slow Slip Events on the Cascadia Megathrust, Effect of Slip Weakening Distance on Seismic Aseismic Slip Patterns, Physics Based Scenario of Earthquake Cycles on the Ventura Thrust System, California, The Effect of Variable Friction and Fault Geometry and A Secondary Zone of Uplift Due to Megathrust Earthquakes are available as open access articles under a CC BY 4.0 license at [link.springer.com](http://link.springer.com).

**Principles of Earthquake Source Mechanics** B. V. Kostrov, Shamita Das, 1988. Kostrov and Das present a general theoretical model summarizing our current knowledge of fracture mechanics as applied to earthquakes and earthquake source processes. Part I explains continuum and fracture mechanics providing the reader with some background and context. Part II continues with a discussion of the inverse problem of earthquake source theory and a description of the seismic moment tensor. Part III presents specific earthquake source models. Although data processing and acquisition techniques are discussed only in simplified form for illustrative purposes, the material in this book will aid in better orienting and developing these techniques. The aim of this book is to explore the phenomena underlying earthquake fracture and present a general theoretical model for earthquake source processes.

Seismic Motion, Lithospheric Structures, Earthquake and Volcanic Sources Yehuda Ben-Zion, 2012-12-06. Geophysicists use seismic signals to image structures in the Earth's interior to understand the mechanics of earthquake and volcanic sources and to estimate their associated hazards. Keiiti Aki developed pioneering quantitative methods for extracting useful information from various portions of observed seismograms and applied these methods to many problems in the above fields. This volume honors Aki's contributions with review papers and results from recent applications by his former students and scientific associates pertaining to topics spawned by his work. Discussed subjects include analytical and numerical techniques for calculating dynamic rupture and radiated seismic waves, stochastic models used in engineering seismology, earthquake and volcanic source processes, seismic tomography, properties of lithospheric structures, analysis of scattered waves, and more. The volume will be useful to students and professional geophysicists alike.

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