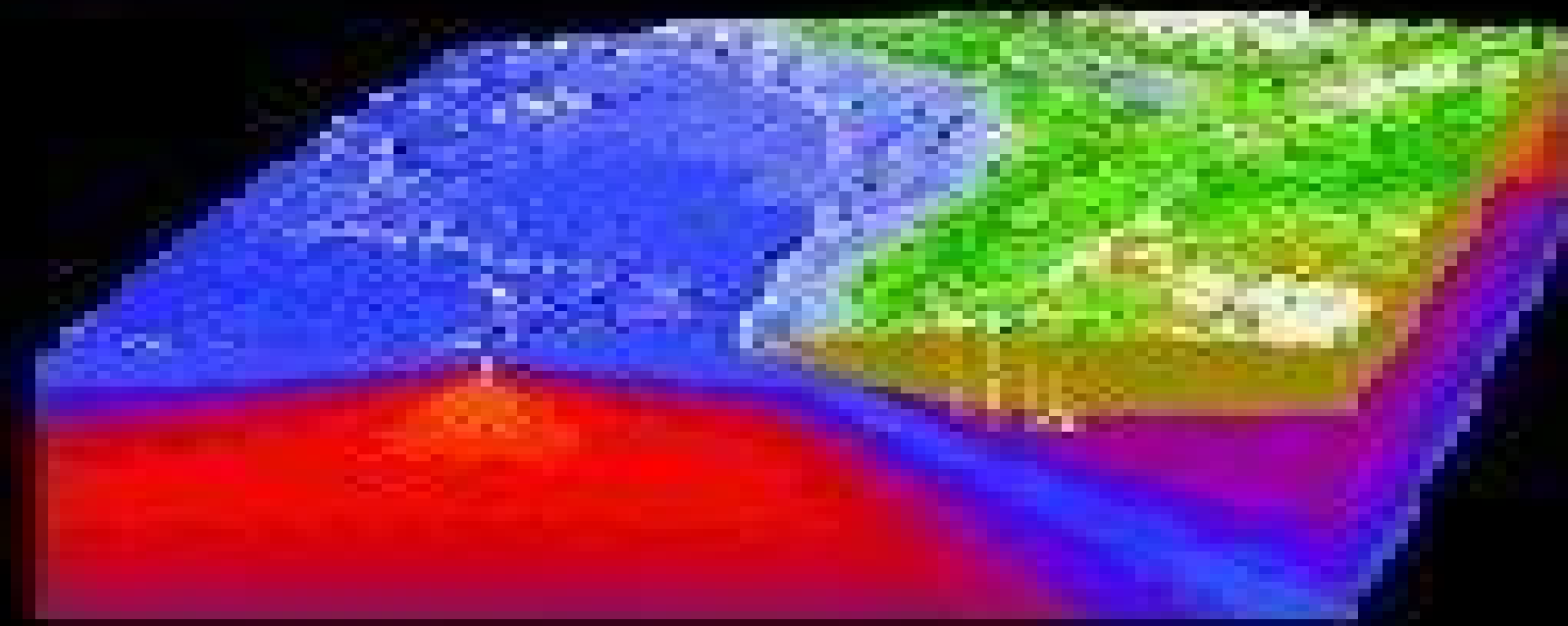


Geodynamics

Second Edition

Donald L. Turcotte
Gerald Schubert



Cambridge

Principles Of Geodynamics 2nd Edition

Henry R. Frankel



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Surge Tectonics: A New Hypothesis of Global Geodynamics Arthur A. Meyerhoff, I. Taner, A.E.L. Morris, W.B. Agocs, M. Kamen-Kaye, Mohammad I. Bhat, N. Christian Smoot, Dong R. Choi, 2012-12-06 TECTONICS AND PHYSICS Geology although rooted in the laws of physics rarely has been taught in a manner designed to stress the relations between the laws and theorems of physics and the postulates of geology The same is true of geophysics whose specialties seismology gravimetry magnetism magnetotellurics deal only with the laws that govern them and not with those that govern geology's postulates The branch of geology and geophysics called tectonophysics is not a formalized discipline or subdiscipline and therefore has no formal laws or theorems of its own Although many recent books claim to be textbooks in tectonophysics they are not they are books designed to explain one hypothesis just as the present book is designed to explain one hypothesis The textbook that comes closest to being a textbook of tectonophysics is Peter 1 Wyllie's 1971 book The Dynamic Earth Teachers students and practitioners of geology since the very beginning of earth science teaching have avoided the development of a rigorous but not rigid scientific approach to tectonics largely because we earth scientists have not fully understood the origin of the features with which we are dealing This fact is not at all surprising when one considers that the database for hypotheses and theories of tectonics particularly before 1960 has been limited to a small part of the exposed land area on the Earth's surface

Theoretical Geomorphology Adrian E. Scheidegger, 2013-04-17 The surface features of the Earth are commonly split into two categories the first of which comprises those features that are due to processes occurring inside the solid Earth endogenetic features and the second those that are due to processes occurring outside the solid Earth exogenetic features Specifically the endogenetic features are treated in the science of geodynamics the exogenetic features in the science of geomorphology I have treated the theoretical aspects of the endogenetic features in my Principles of Geodynamics and it is my aim to supplement my earlier book with a discussion of the theory of the exogenetic features It is my hope that the two books will together present a reasonably coherent if necessarily incomplete account of theoretical geology Contrary to endogenetic phenomena exogenetic processes can often be directly observed as they occur the action of a river the development of a slope and the evolution of a shore platform are all sufficiently rapid so that they can be seen as they take place This has the result that in geomorphology one is generally on much less speculative ground regarding the mechanics of the processes at work than one is in geodynamics

The Continental Drift Controversy: Volume 4, Evolution into Plate Tectonics Henry R. Frankel, 2012-04-26 The resolution of the sixty year debate over continental drift culminating in the triumph of plate tectonics changed the very fabric of Earth science This four volume treatise on the continental drift controversy is the first complete history of the origin debate and gradual acceptance of this revolutionary theory Based on extensive interviews archival papers and original works Frankel weaves together the lives and work of the scientists involved producing an accessible narrative for scientists and non scientists alike This fourth volume explains the discoveries in the

mid 1960s which led to the rapid acceptance of seafloor spreading theory and how the birth of plate tectonics followed soon after with the geometrification of geology Although plate tectonics did not explain the cause or dynamic mechanism of drifting continents it provided a convincing kinematic explanation that continues to inspire geodynamic research to the present day

The Continental Drift Controversy Henry R. Frankel, 2012-04-26 Describes the expansion of the land based paleomagnetic case for drifting continents and recounts the golden age of marine geoscience *Publications of Goddard Space Flight Center* Goddard Space Flight Center, 1963 Geological Hazards B.A. Bolt, W.L. Horn, G.A. MacDonald, R.F. Scott, 2013-12-21

Growth of population communication and interdependence among countries has sharpened the impact of natural disasters Not only have calamities and miseries been given wider publicity but the realization has grown that through rational study and foresight much can be done to mitigate these hazards to life and social wellbeing In this book we present a summary account of hazards which nowadays are usually classified as geological earthquakes faulting tsunamis seiches volcanoes avalanches rock and soil slides differential settlement and liquefaction of soil and inundation The book is aimed first at the general reader who is interested in studying the history of such hazards and examining ways that risk can be reduced even if all dangers cannot be eliminated We also hope that the book will be useful to college students in introductory courses in geology engineering geography country and urban planning and in environmental studies We have tried to bring out for the students the problems that remain to be solved

Alfred Wegener Mott T. Greene, 2015-10-30 A masterful biography of Alfred Wegener 1880-1930 the German scientist who discovered continental drift Winner of the CHOICE Outstanding Academic Title of the Choice ACRL Alfred Wegener aimed to create a revolution in science which would rank with those of Nicolaus Copernicus and Charles Darwin After completing his doctoral studies in astronomy at the University of Berlin Wegener found himself drawn not to observatory science but to rugged fieldwork which allowed him to cross into a variety of disciplines The author of the theory of continental drift the direct ancestor of the modern theory of plate tectonics and one of the key scientific concepts of the past century Wegener also made major contributions to geology geophysics astronomy geodesy atmospheric physics meteorology and glaciology Remarkably he completed this pathbreaking work while grappling variously with financial difficulty war economic depression scientific isolation illness and injury He ultimately died of overexertion on a journey to probe the Greenland icecap and calculate its rate of drift This landmark biography the only complete account of the scientist's fascinating life and work is the culmination of more than twenty years of intensive research In *Alfred Wegener* Mott T. Greene places Wegener's upbringing and theoretical advances in earth science in the context of his brilliantly eclectic career bringing Wegener to life by analyzing his published scientific work delving into all of his surviving letters and journals and tracing both his passionate commitment to science and his thrilling experiences as a polar explorer a military officer during World War I and a world record setting balloonist In the course of writing this book Greene traveled to every place that Alfred Wegener lived and worked to Berlin rural Brandenburg Marburg

Hamburg and Heidelberg in Germany to Innsbruck and Graz in Austria and onto the Greenland icecap He also pored over archives in Copenhagen Munich Marburg Graz and Bremerhaven where the majority of Wegener's surviving papers are found Written with great immediacy and descriptive power Alfred Wegener is a powerful portrait of the scientist who pioneered the modern concept of unified Earth science The book should be of interest not only to earth scientists students of polar travel and exploration and historians but to all readers who are fascinated by the great minds of science

Morphotectonics Adrian E. Scheidegger, 2004-04-08 Morphotectonics the relation between geomorphology and neotectonics is fundamental to the understanding of landscape evolution Stressing mainly the quantitative interpretation of field observations this monograph compares the morphological structure of drainage systems river courses glacial forms volcanic landscapes and mass movements with joint orientations The latter are indicative of the neotectonic stresses and thus inferences on the genesis of the morphological forms can be drawn The data on outcrops on all six continents and on islands in all major oceans have been acquired to a large extent by the author himself The book therefore represents a first hand account of the work and its relevance which has been done worldwide over the last 30 years The Expanding Earth
Pascual Jordan, 2016-05-24 International Series of Monographs in Natural Philosophy Volume 37 The Expanding Earth Some Consequences of Dirac's Gravitation Hypothesis focuses on the applications of Dirac's gravitation hypothesis The book first discusses objections to Dirac's hypothesis and expansion cracks including geological chronology astrophysical objections rift valleys rills of the moon deep sea trenches and oceanic rifts The text then looks at the origin of the oceans as well as growth and shrink of continents expansion and formation of oceans growth of land areas and paleomagnetism The manuscript examines the physics of the earth moon system Topics include rheology and seismic exploration of the earth's interior quantitative data about the earth's expansion and Dirac's hypothesis and the many body problem The book also offers information on volcanoes lunar craters folded mountains and ice ages Topics include Bunge's explanation of volcanism folded mountains and submarine tablemounts and currents The text is a dependable source of data for readers interested in Dirac's gravitation hypothesis **Geophysical Abstracts ...** ,1963

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