

Modern Global Seismology

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intended as an introduction to the field modern global seismology is a complete self contained primer on seismology it features extensive coverage of all related aspects

from observational data through prediction emphasizing the fundamental theories and physics governing seismic waves both natural and anthropogenic based on thoroughly class tested material the text provides a unique perspective on the earth's large scale internal structure and dynamic processes particularly earthquake sources and on the application of theory to the dynamic processes of the earth's upper skin authored by two experts in the field of geophysics this insightful text is designed for the first year graduate course in seismology exploration seismologists will also find it an invaluable resource on topics such as elastic wave propagation seismic instrumentation and seismogram analysis useful in interpreting their high resolution images of structure for oil and mineral resource exploration more than 400 illustrations many from recent research articles help readers visualize mathematical relationships 49 boxed features explain advanced topics provides readers with the most in depth presentation of earthquake physics available contains incisive treatments of seismic waves waveform evaluation and modeling and seismotectonics provides quantitative treatment of earthquake source mechanics contains numerous examples of modern broadband seismic recordings fully covers current seismic instruments and networks demonstrates modern waveform inversion methods includes extensive references for further reading

modern global seismology second edition is a complete self contained primer on seismology featuring extensive coverage of all related aspects from observational data through prediction and emphasizing the fundamental theories and physics governing seismic waves both natural and anthropogenic based on thoroughly class tested material the text provides a unique perspective on earth's large scale internal structure and dynamic processes particularly earthquake sources and the application of theory to the dynamic processes of the earth's upper layer this insightful new edition is designed for accessibility and comprehension for graduate students entering the field exploration seismologists will also find it an invaluable resource on topics such as elastic wave propagation seismic instrumentation and seismogram analysis includes more than 400 illustrations from both recent and traditional research articles to help readers visualize mathematical relationships as well as boxed features to explain advanced topics offers incisive treatments of seismic waves waveform evaluation and modeling and seismotectonics as well as quantitative treatments of earthquake source mechanics and numerous examples of modern broadband seismic recordings covers current seismic instruments and networks and demonstrates modern waveform inversion methods includes extensive updated references for further reading new to this edition features reorganized chapters split into two sections beginning with introductory content such as tectonics and seismogram analysis and moving on to more advanced topics including seismic wave excitation and propagation multivariable and vector calculus

and tensor approaches completely updated references and figures to bring the text up to date includes all new sections on recent advancements and to enhance examples and understanding split into shorter chapters to allow more flexibility for instructors and easier access for researchers and includes exercises

statistical seismology aims to bridge the gap between physics based and statistics based models this volume provides a combination of reviews methodological studies and applications which point to promising efforts in this field the volume will be useful to students and professional researchers alike who are interested in using stochastic modeling for probing the nature of earthquake phenomena as well as an essential ingredient for earthquake forecasting

the treatise on geophysics is the only comprehensive state of the art and integrated summary of the present state of geophysics offering an array of articles from some of the top scientists around the world this 11 volume work deals with all major parts of solid earth geophysics including a volume on the terrestrial planets and moons in our solar system this major reference work will aid researchers advanced undergrad and graduate students as well as professionals in cutting edge research

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this encyclopedia is an overview of the history of science in america from colonial times to the present organized alphabetically within scientific discipline the set is divided into fourteen sections that include overview essays tracing the historical

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