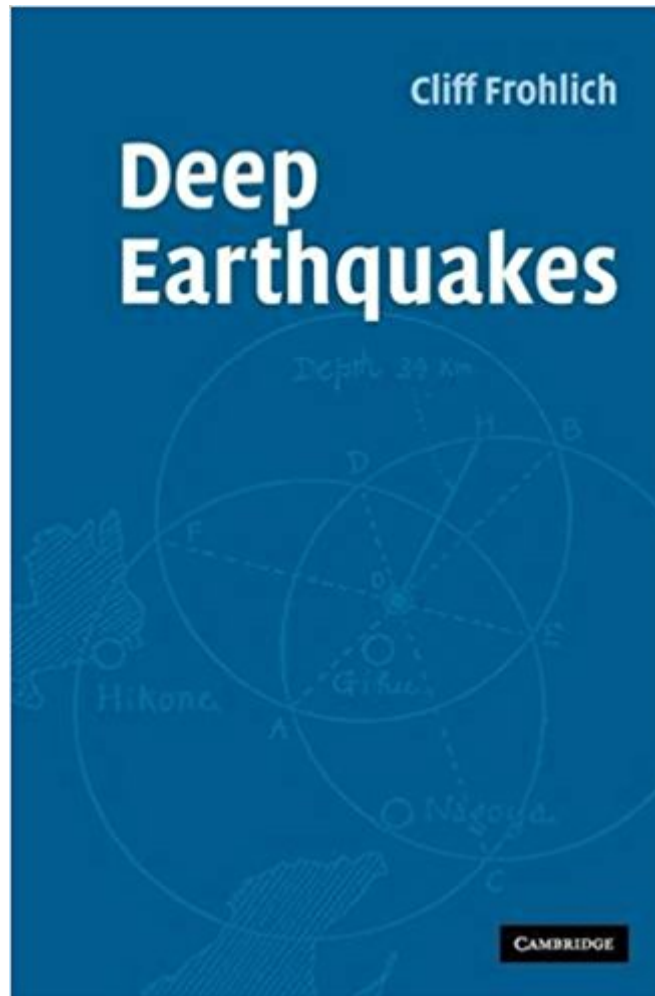




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Deep Earthquakes



Synopsis

Deep earthquakes (earthquakes with origins deeper than 60 km) are of scientific importance and account for approximately one-quarter of all earthquakes. They are occasionally very large and damaging yet provide much of the data that constrain our knowledge of Earth structure and dynamics. This book opens with an explanation of what deep earthquakes are, their significance to science and how they were first discovered. Later chapters provide a description of deep earthquake distribution and clustering in both time and space; a review of observations about source properties; and a discussion of theories for the origin of deep earthquakes. The book concludes with a comprehensive literature review of terrestrial and lunar deep seismicity. Deep Earthquakes presents a comprehensive, topical, historical, and geographical summary of deep earthquakes and related phenomena. It will be of considerable interest to researchers and graduate students in the fields of earthquake seismology and deep Earth structure.

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"This book is considerably more than yet another text in earthquake seismology: It also emphasizes the human element as science is being done. For example, Frohlich takes pains to narrate how the thinking of some of the leading players evolved over time." Sven Treitel, Tulsa, USA
"The book's unusual tone makes it easy to read, whether one is a seismological beginner, a graduate student or researcher, he (she) will always find the book interesting and useful. Even the world's leading seismologists may profit from the book since it systematizes the up-to-date findings and provides

and extensive list of references. Collecting this list must have been a titanic work just by itself. ...taking into account the fact that [the book] supplies information comparable to that of a one semester long college course...the book is worth its price." - Pawel Wiejacz, Physics Today

Deep Earthquakes presents a comprehensive, topical, historical, and geographical summary of deep earthquakes and related phenomena. This book will be of considerable interest to researchers and graduate students in the fields of earthquake seismology and deep Earth structure.

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