basis for discussions of numerous seismological, geological, and geodetic phenomena related to earthquakes. I found this approach rewarding. Perhaps new results will modify the model in time, but for now it gives the reader a basis upon which to explore diverse topics in earthquake science with a rich assemblage of examples.

There is discussion and analysis of earthquakes from a variety of tectonic settings, including plate margins and plate interiors. Artificially induced seismicity associated with fluid injection and reservoir loading is also discussed. The last chapter deals with earthquake hazards and prediction, the sociopolitical engine for much of current support for earthquake research. Scholz points out the successes, failures, and frustrations of this work. Great progress has been made in identifying seismic sources and their potential for causing damage to buildings and other structures. Risk assessment based on probabilistic arguments is becoming routine for engineers, planners, and politicians. An introduction and overview of these techniques are given in the book. Short-term prediction remains the Achilles heel of earthquake research. Fifteen years ago dilatancydiffusion hypotheses held great promise as a physical basis for developing prediction techniques, but the potential did not become reality. The pitfalls and potential of prediction are discussed in the book. The ability to predict earthquakes in terms of hours, weeks, or months is perhaps not the panacea that many once thought, given the social and political havoc that such predictions create. However, for scientists, the ability to predict earthquakes would indicate that we really do understand the mechanics of faulting and earthquakes. We still don't have it right, but Scholz's book is an important reference for experienced researchers and top-gun graduate students who want to

Who should read this book? I think all scientists working on earthquake problems. If you don't have the time to read it through, then skip parts that bear directly on your discipline and read what everyone else has been up to. You'll be surprised, possibly excited, and will likely get some new ideas to pursue. Teachers will find the book useful for supplementary reading in advanced rock mechanics, seismology, structural geology, and neotectonics courses. The book is well suited for an interdisciplinary seminar on faulting and earthquake generation, led by faculty from different disciplines. Engineers who deal with earthquake design problems will find it useful for improving scientific insight and their ability to communicate with earth scientists. They may have some problems with jargon, but

Scholz has kept that to a minimum. The book is too technical for most land-use planners or others involved in various social or political aspects of earthquake hazards, and it is definitely not written for the average lay person.

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