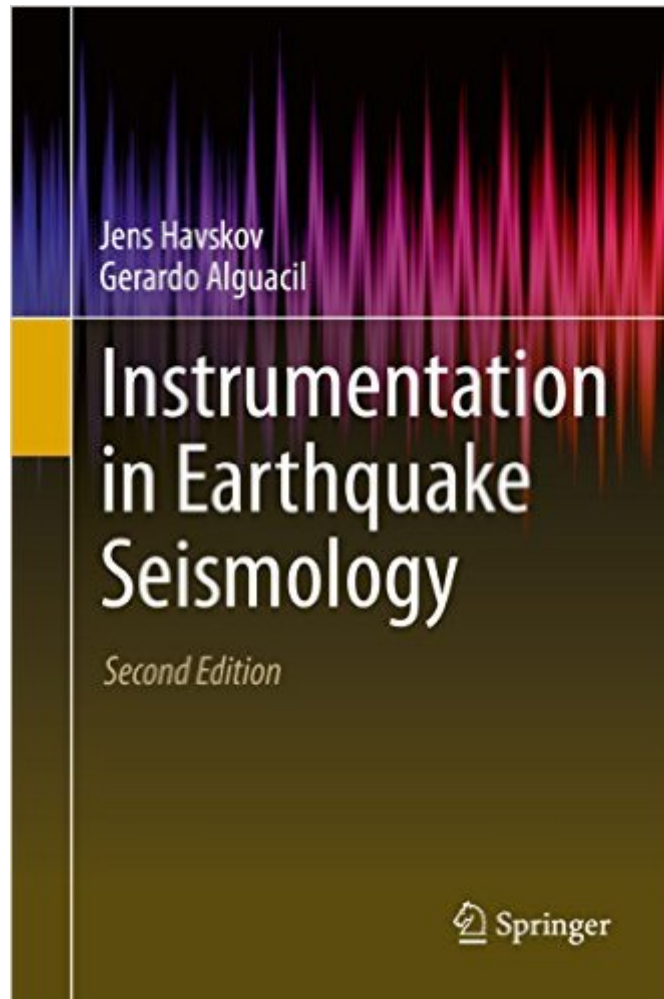


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Instrumentation In Earthquake Seismology



Synopsis

This work provides an up-to-date overview of modern instruments used in earthquake seismology as well as a description of theoretical and practical aspects of seismic instrumentation. The main topics are: • Choosing and installing equipment for seismic stations • Designing and setting up seismic networks and arrays • Maintaining and calibrating seismic instruments It also provides detailed descriptions of the following: • Seismic sensors • Digitizers • Seismic recorders • Communication systems • Software used for seismic station and networks In this second edition, new seismic equipment is presented and more comprehensive sections on topics like MEMS accelerometers, sigma-delta AD converters, dynamic range discussion and virtual networks have been included. This book is primarily intended for seismologists, engineers and technicians working with seismological instruments. It combines practical "know-how" with sufficient theory to explain the basic principles, making it also suitable for teaching students the most important aspects of seismic instrumentation. The book also gives a current overview of the majority of instruments and instrument manufacturers on the market, making it easy to compare the capability of instruments from different sources. SEISAN software was used for several examples in the book. This widely extended seismic analysis software is freely available from the University of Bergen website. The content of this book draws on the authors' (a seismologist and a physicist) combined experience of working in this field for more than 35 years.

Book Information

File Size: 7732 KB

Print Length: 413 pages

Publisher: Springer; 2 edition (November 16, 2015)

Publication Date: November 16, 2015

Sold by: Digital Services LLC

Language: English

ASIN: B0183FDXOI

Text-to-Speech: Enabled

X-Ray: Not Enabled

Word Wise: Enabled

Lending: Not Enabled

Enhanced Typesetting: Not Enabled

Best Sellers Rank: #1,146,493 Paid in Kindle Store (See Top 100 Paid in Kindle Store) #65

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