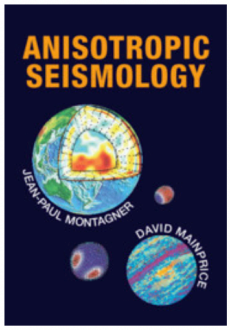
ANISOTROPIC SEISMOLOGY
Jean-Paul Montagner & David Mainprice, Cambridge University Press (CUP)

I am happy to share that our book “Anisotropic Seismology” was published last January. For those of you who will attend the EGU meeting in Vienna (4-8 May), the book will be advertised and available at the CUP booth.
Earth Seismic anisotropy is ubiquitous at both the microscopic and macroscopic scales. The goal of this multidisciplinary book is to introduce students and more advanced scientists to seismic anisotropy at different scales, from the microscopic (0.1 nanometer) scale to the Earth (1000 kilometre) scale, and to improve the reader's understanding of all active Earth processes. Drawing on both mineral physics and seismology, it presents the different geological, mineralogical, and geodynamical applications of seismic anisotropy, and provides a new vision of the Earth Dynamics. It argues that an understanding of seismic anisotropy is necessary to interpret all seismic, geophysical, petrological, and geological data. This volume is an invaluable tool for graduate students and research scientists in seismology/geophysics, and will be of considerable interest to geophysicists working in petroleum exploration/production, to mineral physicists and researchers in geodynamics and fluid flow in rocks. With an overview of the main recent advances in research, it also provides the perfect starting point for further research.

“Everything You’ve Always Wanted to Know About Seismic Anisotropy but Were Afraid to Ask”
(Inspired by the title of a film by Woody Allen)



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Published online by Cambridge University Press: **13 December 2025**

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Type	Chapter
Information	Anisotropic Seismology , pp. 555 - 560 DOI: https://doi.org/10.1017/9781139031271.023 Publisher: Cambridge University Press Print publication year: 2026

https://www.cambridge.org/9780521199001