



A Breviary of Seismic Tomography: Imaging the Interior of the Earth and Sun

By Guust Nolet

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This is the first textbook to cover the essential aspects of the topic at a level accessible to students. While focusing on applications in solid earth geophysics, the book also uniquely includes excursions into helioseismology, thereby highlighting the strong affinity between the two fields. The book provides a comprehensive introduction to seismic tomography, including the basic theory of wave propagation, the ray and Born approximations required for interpretation of amplitudes, and travel times and phases. It considers observational features while also providing practical recommendations for implementing numerical models. Written by one of the leaders in the field, and containing numerous student exercises, this textbook is appropriate for advanced undergraduate and graduate courses. It is also an invaluable guide for seismology research practitioners in geophysics and astronomy. Solutions to the exercises and accompanying tomographic software and documentation can be accessed online from www.cambridge.org/9780521882446.

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Editorial Review

Review

"This very readable and inspiring book has brought my knowledge and understanding of this very interesting research field to a higher level. To my opinion, this book should be on the shelves of every seismology student and every practitioner of global seismic tomography. Moreover, it may be a very useful source for researchers in other disciplines employing tomography, such as ultrasonics, ocean acoustics, and exploration geophysics." - Kees, Wapenaar, The Journal of the Acoustical Society of America

About the Author

Guust Nolet is the George J. Magee Professor of Geophysics emeritus at Princeton University and currently teaches at the University of Nice Sophia Antipolis in France. His research interests include seismic body wave tomography and investigations of the structure of the mantle and its role in shaping the Earth's surface. Professor Nolet is the winner of the 1980 Prix Lagrange award, the 1983 Vening Meinesz prize, and the 2006 Beno Gutenberg medal of the European Geophysical Union. He is a Fellow of the American Geophysical Union and the co-editor of two other books.

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