


Training material


Spice books and presentations of invited speakers at the spice workshops contributors:

Spice Books

 [Moczo, P., Kristek, J., Halada, L. \(2004\), *The Finite-Difference Method for Seismologists. An Introduction*](#)

+ training 1D FD codes from the software library including examples from the book: [1DFD_DS](#),
[1DFD_DVS](#), [1DFD_VS](#)

158 pp., Comenius University, Bratislava, ISSN: 80-223-2000-5.

 [Broke?ová, J. \(2006\), *Asymptotic ray method in seismology: A tutorial*](#)

+ attached [CD with ZRAYAMP code](#)

155 pp., Matfyzpress, Praha.


Presentations of invited speakers at the Spice workshops


Wave propagation modeling

Peter Moczo

 [Introduction to the finite-difference method I & II](#)

Géza Seriani, Ekkehart Tessmer


 [Introduction to the pseudospectral method I](#)

 [Introduction to the pseudospectral method II](#)


Jean-Pierre Vilotte


 [Introduction to the spectral/finite element method I & II](#)


Johana Broke?ová

 [Asymptotic ray theory in seismology](#)

John Woodhouse

 [Introduction to Normal mode theory and observation](#)

 [AUDIO-VIDEO LECTURE: Introduction to Normal mode theory and observation](#)

 [Seismic Tomography and Fully Numerical Wave Field Calculations – Future Prospects and Perspectives](#)

Wolfgang Friederich

 [GEMINI – Tutorial](#)

 [AUDIO-VIDEO LECTURE: GEMINI – Tutorial](#)

 [GEMINI \(code\)](#)


 [Waveform Sensitivity Kernels for General Aspherical Perturbations](#)

Robert J. Geller

 [Optimally Accurate Finite Difference Operators](#)

Seismic inversions


J. Tromp

 [Toward seismic tomography based upon adjoint methods](#)


John Woodhouse

 [The tomographic inverse problem](#)


Lapo Boschi

 [Global seismic tomography: limitations and the future](#)


A. Deus

 [Probing Earth's deep interior using seismic observations of mantle discontinuities](#)


E. Beucler

 [Least-squares criterion: variations on a theme](#)


J.P. Montagner

 [Global anisotropy tomography](#)


Robert J. Geller

 [Toward inversion of broadband seismic body-wave waveform data for Earth structure](#)

M. Sambridge

 [Trans-dimensional inverse problems, model comparison and the Evidence](#)

P. Martin Mai, Jean-Paul Ampuero

 [Kinematic source inversion](#)


Jean-Paul Ampuero

 [Dynamic source inversion](#)

Kim Bak Olsen

 [Nonlinear Inversion of Dynamic Rupture Parameters](#)

C. Thomson


 [Seismic inversion in the exploration domain](#)

Volcano seismology

J. Wassermann


 [Volcano Seismology](#)

Chris Bean

 [The EU Funded VOLUME Project & some stuff about volcano source modelling](#)


Others

Jose Carcione


 [Rheological aspects of wave modeling](#)

Torsten Dahm

 [The Mushy seafloor problem: observations and questions](#)

 [AUDIO-VIDEO LECTURE: The Mushy seafloor problem – observations and questions](#)

R. Snieder

 [Theory and application of seismic interferometry in seismology](#)

Created by gallovic

Last modified 2007-07-24 13:47