"Inverse problems and model identification in mechanics" organized by Barbara Kaltenbacher

Miniworkshop

Miniworkshop "Direct and inverse problems in piezoelectricity" organized by Barbara Kaltenbacher and Manfred Kaltenbacher, October 6 - 7, 2005, Begin: 9:00, Room: HF 136

Lectures "Parameter Identification in Partial Differential Equations" held by Barbara Kaltenbacher

Download lecture notes (PDF)

- 1. Motivation, examples, applications October 5, 2005, Time: 10:15 - 11:45, Room: HF 9901
- 2. The electrical impedance tomography problem I October 10, 2005, Time: 13:45 - 15:15, Room: HF 9901
- 3. The electrical impedance tomography problem II October 12, 2005, Time: 10:15 - 11:45, Room: HF 9901
- 4. The electrical impedance tomography problem III October 17, 2005, Time: 10:15 - 11:45, Room: HF 9901
- 5. An inverse source problem for the heat equation I October 19, 2005, Time: 10:15 - 11:45, Room: HF 9901
- An inverse source problem for the heat equation II October 24, 2005, Time: 10:15 - 11:45, Room: HF 9901
- An inverse source problem for the heat equation III November 14, 2005, Time: 10:15 - 11:45, Room: HF 9901
- Determination of a coefficient in a hyperbolic PDE November 16, 2005, Time: 10:15 - 11:45, Room: HF 9901
- An inverse scattering problem I November 21, 2005, Time: 10:15 - 11:45, Room: HF 9901
- An inverse scattering problem II November 23, 2005, Time: 10:15 - 11:45, Room: HF 9901
- An inverse scattering problem III November 28, 2005, Time: 10:15 - 11:45, Room: HF 9901
- 12. Numerical solution methods I: Tikhonov regularization November 30, 2005, Time: 10:15 - 11:45, Room: HF 9901
- Numerical solution methods II: Iterative methods December 5, 2005, Time: 10:15 - 11:45, Room: HF 9901
- Numerical solution methods III: the factorization method December 7, 2005, Time: 10:15 - 11:45, Room: HF 9901

Tutorials "Parameter Identification in Partial Differential Equations" held by Tom Lahmer

Download: SobolevSpaceTheory.pdf

- 1. Tutorial 1 October 5, 2005, Time: 15:30 - 16:15, Room: HF 136
- 2. Tutorial 2 October 10, 2005, Time: 15:30 - 16:15, Room: KHG 1
- 3. Tutorial 3

October 12, 2005, Time: 15:30 - 16:15, Room: HF 9901 4. Tutorial 4 October 17, 2005, Time: 15:30 - 16:15, Room: HF 136 5. Tutorial 5 October 19, 2005, Time: 15:30 - 16:15, Room: HF 136 6. Tutorial 6 October 24, 2005, Time: 15:30 - 16:15, Room: HF 136 Download: heatEqExample1_2.pdf 7. Tutorial 7: Inverse Problems in Partial Differential Equations October 28, 2005, Time: 12:00 - 13:00, Room: HF 9903 Download: illPosedLinearOperatorEquations.pdf 8. Tutorial 8 November 14, 2005, Time: 15:30 - 16:15, Room: HF 136 9. Tutorial 9 November 16, 2005, Time: 15:30 - 16:15, Room: HF 136 10. Tutorial 10 November 21, 2005, Time: 15:30 - 16:15, Room: HF 9901 11. Tutorial 11 November 23, 2005, Time: 15:30 - 16:15, Room: HF 9901 12. Tutorial 12 November 28, 2005, Time: 15:30 - 16:15, Room: HF 136 13. Tutorial 13 November 30, 2005, Time: 15:30 - 16:15, Room: HF 136 14. Tutorial 14 December 5, 2005, Time: 15:30 - 16:15, Room: HF 136 15. Tutorial 15 December 7, 2005, Time: 15:30 - 16:15, Room: HF 9901