

Mathematics 606  
**Inverse Problems for PDE's**

**References**

- Robert Adams, **Sobolev Spaces**, Academic Press, 1975.
- Peter Buser, **Geometry and spectra of compact Riemann Surfaces**, Birkhäuser, 1992.
- Lawrence C. Evans, **Partial Differential Equations**, AMS, 1998.
- Gerald Folland, **Introduction to Partial Differential Equations**, Princeton University Press, 1995.
- Sirgurdur Helgason, **The Radon Transform**, Birkhäuser, 1980.
- Victor Isakov, **Inverse Problems for Partial Differential Equations**, Springer, 1997.
- Mark Kac, **Can One Hear the Shape of a Drum?**, American Mathematical Monthly, **73**, Issue 4, Part 2, 1–23 (1966).
- Andreas Kirsch, **An Introduction to the Mathematical Theory of Inverse Problems**, Springer, 1996.
- Victor Isakov, **Inverse Problems for Partial Differential Equations**, Springer, 1997.
- Elliott Lieb and Michael Loss, **Analysis**, AMS, 1997.
- Jürgen Pöschel and Eugene Trubowitz, **Inverse Spectral Theory**, Academic Press, 1987.
- Gunther Uhlmann, **The Dirichlet to Neumann Map and Inverse Problems**, preprint.
- Yves Colin de Verdière, **Spectres de Graphes**, Paris Société Mathématique de France 1998

**Instructors**

Joel Feldman, Math 221, 822-5660, feldman@math.ubc.ca, <http://www.math.ubc.ca/~feldman/>  
Richard Froese, Matx 1106, 822-3042, rfroese@math.ubc.ca, <http://www.math.ubc.ca/~rfroese/>  
Nassif Ghoussoub, PIMS, 822-3922, nassif@math.ubc.ca, <http://www.pims.math.ca/~nassif/>  
Stephen Gustafson, Math 115, 822-3138, gustaf@math.ubc.ca, <http://www.math.ubc.ca/~gustaf/>