

List of Publications

- Rieder, M.J., Verifikation eines 2-dimensionalen Meßsystems zur 3-dimensionalen Strömungsmessung mittels 2d-Laser-Doppler-Velocimetrie [in German], *Diplomarbeit am Lehrstuhl für Hydraulische Maschinen und Anlagen*, 1995.
- Rieder, M.J., Bayesian estimation of parameters using several sources of information, *Institutsbericht am Institut für Umweltp Physik der Universität Bremen*, Bremen, 1998.
- Rieder, M.J., Advanced physical-statistical retrieval of humidity and temperature profiles from spaceborne downlooking microwave sounder data (Ph.D. thesis), *Wissenschaftl. Ber. No. 1 / '98*, 145 pp., Inst. of Meteorology and Geophysics, Univ. of Graz (IMG/UoG), Austria, 1998.
- Rieder, M.J., and G. Kirchengast, A hybrid inversion algorithm for nonlinear retrieval problems and its use for water vapor profiling based on microwave sounder data, *SPIE Proceedings of the Conference on Microwave Remote Sensing of the Atmosphere and Environment*, Remote Sensing Beijing '98, 1998.
- Rieder, M.J., and G. Kirchengast, Water vapor profiling with SSM/T-2 data employing an extended optimal estimation approach, *SPIE Proceedings of the Conference on Microwave Remote Sensing of the Atmosphere and Environment*, Remote Sensing Beijing '98, 1998.
- Rieder, M.J., Bayesian inversion of remotely measured data to estimate water stress of trees, *Papel del Programa Multidisciplinario Percepción Remota*, Universidad de Concepción - Chile, Concepción, 1998.
- Rieder, M.J., and G. Kirchengast, Physical-statistical retrieval of water vapor profiles using SSM/T-2 sounder data, *Geophysical Research Letters*, Vol.26, No.10, 1397-1400, 1999.
- Rieder, M.J., and G. Kirchengast, An inversion algorithm for nonlinear retrieval problems extending Bayesian optimal estimation, *Radio Science*, Vol.35, No.1, 45-56, 2000.
- Rieder, M.J., and G. Kirchengast, Error analysis for mesospheric temperature profiling by absorptive occultation sensors, *Annales Geophysicae*, 19, 71-81, 2001.
- Rieder, M.J., and G. Kirchengast, Error analysis and characterization of atmospheric profiles retrieved from GNSS occultation data, *Journal of Geophysical Research*, 106(D23), 31755-31770, 2001.
- Rieder, M.J., Bayesianisches Kredit-Scoring, Eine innovative Idee zur Messung des Ausfallrisikos [in German], *Risknews*, 09, 2003.
- Rieder, M.J., Workout-Scoring, Ein Konzept zur Optimierung von Rückflussquoten [in German], *Risknews*, 05, 2005.
- Rieder, M.J., Erträge steigern, Risiken begrenzen, Profitorientierte Limitsteuerung für Privat-Dispos [in German], *RisikoManager*, 01, 2006.
- Rieder, M.J., Optimal Control of Personal Checking Account Overdrafts, *Webster University Master Thesis*, Vienna, 2006.

- Rieder, M.J., Correlations in profiles of temperature and pressure retrieved from remote measurements of density (submitted), *Radio Science*, 2006.
- Rieder, M.J., A Kalman filter approach to dynamic portfolio scoring (in preparation), to be submitted to *Risk*, 2006.
- Rieder, M.J., Alternative views on Bayesian optimal estimation (in preparation), to be submitted to *Journal of Geophysical Research*, 2006.
- Rieder, M.J., and S. Gruber, Estimating and interpreting stock volatilities from option prices by means of Bayesian statistics (in preparation), to be submitted to *Risk*, 2006.
- Rieder, M.J., Ein Optionsmodell für LGD-Schätzungen [in German] (in preparation), to be submitted to *RisikoManager*, 2006.
- Rieder, M.J., Rating bei Mehrfachproduktnutzungen [in German] (in preparation), to be submitted to *RisikoManager*, 2006.
- Rieder, M.J., Die Survival-Analysis, Eine Scoring-Technik für langfristige Engagements [in German] (in preparation), to be submitted to *RisikoManager*, 2006.