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Neutron Scattering in Earth Sciences
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(Click text for link. * Means no presentation available.)

Short Course Presentations

Chapter 1: Introduction to Neutron Properties and Applications. By John B. Parise

**Chapter 2: Neutron Production, Neutron Facilities and Neutron Instrumentation.* By Sven C. Vogel and Hans-Georg Priesmeyer

Chapter 3: Single-Crystal Neutron Diffraction: Present and Future Applications. By Nancy L. Ross and Christina Hoffman

Chapter 4: Neutron Rietveld Refinement. By Robert B. Von Dreele

Chapter 5: Application of Neutron Powder-Diffraction to Mineral Structures. By Karsten Knorr and Wulf Depmeier

Chapter 6: Neutron Diffraction of Magnetic Materials. By Richard J. Harrison

Chapter 7: Neutron Powder Diffraction Studies of Order-Disorder Phase Transitions and Kinetics. By Simon A.T. Redfern

Chapter 8: Time-Resolved Neutron Diffraction Studies with Emphasis on Water Ices and Gas Hydrates. By Werner F. Kuhs and Thomas C. Hansen

Chapter 9: High Pressure Studies. By John B. Parise

Chapter 10: Inelastic Scattering and Applications. By Chun-Keung Loong

Chapter 11: Analysis of Disordered Materials Using Total Scattering and the Atomic Pair Distribution Function. By Thomas Proffen

Chapter 12: Structure of Glasses and Melts. By Martin C. Wilding and Chris J. Benmore

Chapter 13: Neutron Scattering and Diffraction Studies of Fluids and Fluid-Solid Interactions. By David R. Cole, Kenneth W. Herwig, Eugene Mamontov and John Z. Larese

**Chapter 14: Small-Angle Neutron Scattering and the Microstructure of Rocks.* By Andrzej P. Radlinski

Chapter 15: Neutron Diffraction Texture Analysis. By Hans-Rudolf Wenk

**Chapter 16: Internal Stresses in Deformed Crystalline Aggregates.* By Mark R. Daymond

**Chapter 17: Applications of Neutron Radiography and Neutron Tomography.* By Bjoern Winkler

Special Presentation: Diffusion Studied by Quasi-elastic Neutron Scattering and Microscopic Simulation: Water in Clays. By Natalie Malikova