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Contents; Preface; 1. Neutrino Oscillation Phenomenology S. J. Parke; 1.1. Introduction; 1.2. The  $e$  Disappearance Channel; 1.2.1. Reactor Experiments at the Solar L/E; 1.2.2. Reactor Experiments at the Atmospheric L/E; 1.2.3. Solar Neutrinos; 1.3. The Disappearance Channel; 1.4. The Appearance Channel; 1.5. Beyond the Neutrino Mixing Model; 1.6. Summary and Conclusion; Acknowledgments; References; 2. The Super-Kamiokande Experiment C. W. Walter; 2.1. Introduction and Physics Goals; 2.2. The Super-Kamiokande Detector; 2.3. Published Results from Super-Kamiokande 2.3.1. Atmospheric Neutrino Oscillations 2.3.2. Solar Neutrino Oscillations; 2.3.3. The Search for Proton Decay; 2.3.4. The Search for Astrophysical Phenomenon; 2.4. Conclusions; Acknowledgments; References; 3. Sudbury Neutrino Observatory S. J. M. Peeters and J. R. Wilson; 3.1. Introduction; 3.2. The SNO Detector; 3.2.1. Signals; 3.2.2. Calibration; 3.2.3. Backgrounds; 3.3. Analysis Strategy; 3.3.1. Signal Extraction; 3.3.1.1. Flux Calculations; 3.3.1.2. Spectrum Measurement; 3.3.1.3. Day-Night Neutrino Flux Asymmetry; 3.4. Phase 1 D<sub>2</sub>O; 3.5. Phase 2 Salt 3.6. Phase 3 Neutral Current Detection Array 3.6.1. The Counter System; 3.6.2. The Backgrounds; 3.6.3. The Installation of the NCD System; 3.6.4. Data-Taking Period; 3.7. Conclusions; Acknowledgments; References; 4. Neutrino Oscillation Physics with KamLAND: Reactor Antineutrinos and Beyond K. M. Heeger; 4.1. Neutrino Physics at Reactors: From the Discovery of  $e$  to Nuclear Non-Proliferation; 4.2. The KamLAND Detector; 4.2.1. Observation of Reactor Antineutrino Disappearance; 4.3. Spectral Distortion as a Signature of Neutrino Oscillation; 4.4. Toward a Precision Measurement of  $m_{21}^2$  and  $\theta_{12}$ ; 4.5. Other Neutrino Physics with KamLAND 4.6. Test of MSW and Non-Standard Interactions in the KamLAND Low-Background Phase; 4.7. Summary and Conclusions; Acknowledgments; References; 5. K2K: KEK to Kamioka Long-Baseline Neutrino Oscillation Experiment R. J. Wilkes; 5.1. Introduction; 5.2. Neutrino Beam; 5.3. Beam Simulation; 5.4. The Near Detectors; 5.5. The Far Detector; 5.6. Neutrino Interaction Simulations; 5.7. Event Rates and Oscillation Analysis; 5.8. Summary and Conclusions; Acknowledgments; References; 6. MINOS P. Vahle; 6.1. Introduction; 6.2. The NuMI Beam; 6.3. The MINOS Detectors 6.4. Calibration 6.5. Event Selection; 6.6. Near Detector Data and Monte Carlo; 6.7. Predicting the Far Detector Spectrum; 6.8. Systematics; 6.9. Results; 6.10. Outlook; Acknowledgments; References; 7. The LSND and KARMEN Neutrino Oscillation Experiments W. C. Louis; 7.1. Introduction; 7.2. LSND; 7.2.1. Description of the Experiment; 7.2.2. Event Selection; 7.2.3. Neutrino Oscillation Signal and Background Reactions; 7.2.4. Neutrino Oscillation Results; 7.3. KARMEN; 7.3.1. Description of the Experiment; 7.3.2. Event Selection; 7.3.3. Neutrino Oscillation Signal and Background Reactions 7.3.4. Neutrino Oscillation Results

This book reviews the status of a very exciting field - neutrino oscillations - at a very important time. The fact that neutrinos have mass has only been proved in the last few years and the acceptance of that fact has opened up a whole new area of study to understand the fundamental parameters of the mixing matrix. The book summarizes the results from all the experiments which have played a role in the measurement of neutrino oscillations and briefly describes the scope of some new planned experiments. Contributions include a theoretical introduction by Stephen Parke from FNAL, as well as a