Acknowledgments

A book of this length is not possible without the contribution of many people like the teachers, collaborators and students in our academic career. It is pleasure to express sincere thanks to our research students Farhana Zaidi, Atika Fatima, Vaniya Ansari, Prameet Gaur, Sayeed Akhter, Zubair Ahmad Dar, Faiza Akbar, and Anuj Upadhyay for the typesetting, with patience and skill; rechecking the mathematical calculations and doing the proof reading. However, mistakes and typos, that might slip through are completely owned by us. Special thanks to Atika Fatima for taking out time and helping us in the completion of several chapters. S. K. Singh would like to acknowledge with gratitude the contribution of his teacher at the Carnegie Mellon University (Late) Lincoln Wolfenstein for introducing him to the fascinating world of neutrino physics. We are also thankful to our research collaborators in the past with whom we did several collaborative papers in the area of neutrino physics and electroweak interactions like Eulogio Oset, Manuel J. Vicente Vacas and Luis Alvarez Ruso from the University of Valencia, Spain; Hartmuth Arenhovel and Dieter Drechsel, University of Mainz, Germany; Ignacio Ruiz Simo, University of Granada, Spain; Takaaki Kajita and Morihiro Honda, University of Tokyo, Japan; and Huma Haider, Rafi Alam and many others at the Aligarh Muslim University. We are thankful to Jorge Morfin, Scientist Emeritus, Fermi National Accelerator Laboratory, for being instrumental in organising NuSTEC (Neutrino Scattering Theory Experiment Collaboration) workshops and schools where the interactions with the young minds resulted in the need for writing a book on this topic.

M. Sajjad Athar is also thankful to his parents and specially to his father Professor Mohammad Ozair who has, since the beginning, motivated him to do work with dedication and honesty. He is also thankful to his teenaged sons Zain and Saud for providing a conducive atmosphere without any complaints and for their love. SKS is thankful to his daughters Asmita and Tanaya for their understanding and active cooperation enabling him to complete this work in time.

We will like to acknowledge with thanks Sudhir Jain, NPD, BARC for encouraging us to write this book and requesting Mr Gauravjeet Singh Reen then at CUP to take initiatives. We are thankful to Ms Taranpreet Kaur and Mr Reen, for their logistic support and commitment in publishing the book from CUP.