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Subtlety in Relativity is the only book that has been written after the author's discovery of a new way in which wave phenomena occur—the emission origin of waves. This drastically changes most issues of the old debate over the world being either deterministic or probabilistic. The emission origin of waves is not incompatible with the ideas of quantum theory; rather, this new and novel way in which waves can be generated justifies the use of mathematical and probabilistic methods of quantum theory. However, the emission origin of waves shows that quantum theory is statistically incomplete in, precisely, Einstein's sense. There exists, then, a certain, previously unexplored, conceptual framework underlying the ideas of quantum theory. Whether this is the theory that Einstein and others were looking for then, how this way of thinking is related to the ideas of relativity, and whether this is a relativistic theory in the usual sense of this word are questions this book answers.

The book demonstrates how the Doppler effect with acceleration is essential to interpreting astronomical observations. It also offers a detailed and self-sufficient technical background of mathematical ideas of category theory. The book is divided into two parts. The first is less mathematical and more conceptual in its orientation. The second focuses on mathematical ideas needed to implement physical concepts. The book is a great reference for advanced undergraduate- and graduate-level students of physics and researchers in physics, astronomy, and cosmology, who will gain a deeper understanding of relativity from it.



Sanjay Moreshwar Wagh is director of the Central India Research Institute, Nagpur, India. He discovered a mathematical way of defining measures over any category, which led him to propose the universal theory of relativity. He also proposed that light consists of momentum-less quanta of only energy, and explained the wave properties of quanta using their emission characteristics—the emission origin for a wave of quanta. Professor Wagh is associated with many national and international societies of scientists and professionals. His research interests include theoretical astrophysics, image processing, fundamental physical interactions, nanoscale phenomena, the Joshi effect, the physics of sports, category theory, and universal relativity.



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