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## Shadowlands: Quest for Mirror Matter in the Universe

By Robert Foot

Universal Publishers, United States, 2002. Paperback. Book Condition: New. 213 x 132 mm. Language: English Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Nearly 50 years ago it was discovered that the fundamental particles, such as the electron and proton, have left-handed interactions - they do not respect mirror symmetry. This experimental fact motivates the idea that a set of mirror particles exist. The left-handedness of the ordinary particles can then be balanced by the right-handedness of the mirror particles. In this way mirror reflection symmetry can exist but requires something profoundly new. It requires the existence of a completely new form of matter called mirror matter. Remarkably the mirror matter theory is capable of simply explaining a large number of contemporary puzzles in astrophysics and particle physics. The evidence ranges from observations suggesting that most of the matter in the Universe is invisible, to unexpected properties of ghostly particles called neutrinos. This book explains this fascinating theory and its evidence at a level accessible to the non-specialist.



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