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## Physics Essays for Advanced Pupils

By Dr. Brian M.E. de Silva

AUTHORHOUSE, United States, 2005. Paperback. Book Condition: New. 280 x 210 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.The present book is primarily aimed at final year mathematics and physics honors students and at mature researchers and practicing engineers with interests in theoretical physics and astronomy. It is also intended as a reference source for the later books. The major topics covered in this presentation include the following: Relativistic effects of space-time and mass-velocity. We believe the primary difference between the absoluteness of Newtonian space and time, with their attendant independence, and the relativistic notions of space and time, is the mediating nature of the electromagnetic field described by Maxwell's equations. This intermediary nature of electromagnetism. is best illustrated by the light cone in 4 dimensions, or its 3 dimensional analogue, the light sphere. The physics is formulated within the framework of a flat 4 dimensional space-time in the absence of matter. The wave particle duality necessitated by the dictums of quantum mechanics, require the photons be smeared on the surface of the spherical wave front. This facilitates the transition from the geometry of Einstein to the 2 dimensional world of particles, whose trajectories reside...



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