

# Schwinger's Quantum Action Principle: From Dirac's Formulation Through Feynman's Path Integrals, the Schwinger-Keldysh Method, Quantum Field Theory, to Source Theory (SpringerBriefs in Physics)

Kimball A. Milton



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Starting from the earlier notions of stationary action principles, these tutorial notes shows how Schwinger's Quantum Action Principle descended from Dirac's formulation, which independently led Feynman to his path-integral formulation of quantum mechanics. Part I brings out in more detail the connection between the two formulations, and applications are discussed. Then, the Keldysh-Schwinger time-cycle method of extracting matrix elements is described. Part II will discuss the variational formulation of quantum electrodynamics and the development of source theory.

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