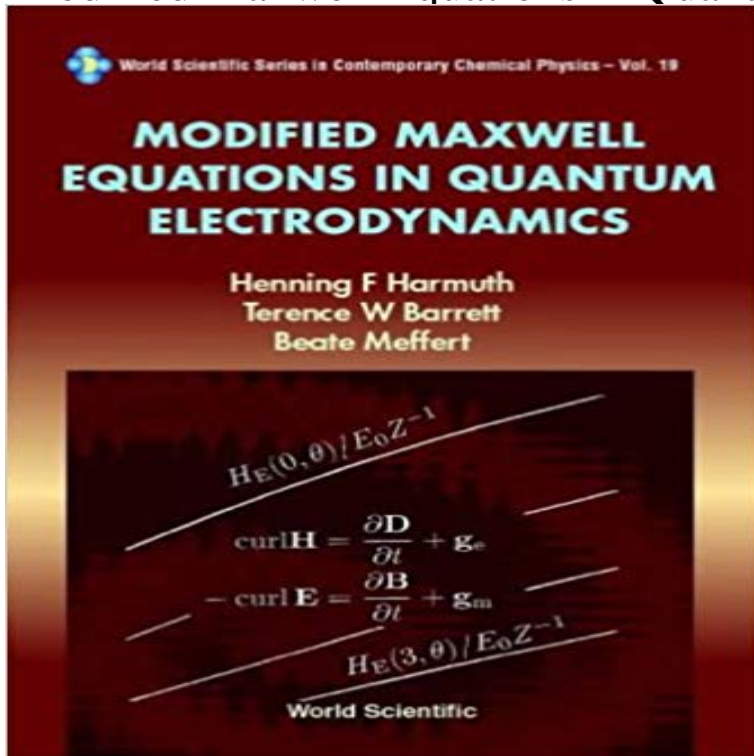


Modified Maxwell Equations in Quantum Electrodynamics



Divergencies in quantum field theory referred to as infinite zero-point energy have been a problem for 70 years. Renormalization has always been considered an unsatisfactory remedy. In 1985 it was found that Maxwells equations generally do not have solutions that satisfy the causality law. An additional term for magnetic dipole currents corrected this shortcoming. Rotating magnetic dipoles produce magnetic dipole currents, just as rotating electric dipoles in a material like barium titanate produce electric dipole currents. Electric dipole currents were always part of Maxwells equations. This book shows that the correction of Maxwells equations eliminates the infinite zero-point energy in quantum electrodynamics. In addition, it presents many more new results.

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