



# Causal Physics: Photons by Non-Interactions of Waves

*Chandrasekhar Roychoudhuri*

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*A Causal Photon Model for Optical Scientists & Engineers*

**Causal Physics: Photons by Non Interactions of Waves** redefines the mathematical *Superposition Principle* as an operational *Superposition Effect*; which is the measurable physical transformation experienced by a detector due to stimulations induced by multiple waves simultaneously acting on the detecting dipoles. This light-matter interaction process driven model emerges naturally by incorporating the observed properties, Non-Interaction of Waves (NIW) and quantized photo detectors needing to fill up their "quantum-cups" with the required quantity of energy from all the stimulating waves around it. By not incorporating this NIW-property explicitly, quantum mechanics failed to extract various embedded realities in the theory while incorporated unnecessary hypotheses like wave-particle duality. The book utilizes this NIW-property to explain all the major optical phenomena (diffraction, spectrometry, coherence..) without using any self-contradictory hypotheses that are prevalent now.

*An Unconventional Book for All Physicists*

The book redefines the old ether (constituting the space) as a stationary Complex Tension Field (CTF), holding all the energy of the universe (no need for Dark Energy of Dark Matter). CTF sustains perpetually propagating EM waves as its linear excitations and the particles as self-looped localized resonant non-linear excitations. Tensions are identified by Maxwell, then the velocities of emitting and detecting atoms through the CTF contribute to the Doppler shifts separately. This calls for re-visiting physical processes behind Hubble Redshift and hence Expanding Universe.

*Novel Strategy for All Critical Thinkers: Visualize the Invisibles*

The success of the book derives from a novel thinking strategy of visualizing the invisible interaction processes, named as Interaction Process Mapping Epistemology (IPM-E). This is over and above the prevailing strategy of Measurable Data Modeling Epistemology (MDM-E). The approach inspires the next generation of physicists to recognizing that the "foundation of the edifice of physics" has not yet been finalized. IPM-E will stimulate more of us to become technology innovators by learning to emulate the ontologically real physical processes in nature and become more evolution congruent.

Critical thinkers without expertise in optical science and engineering, will appreciate the value of the content by reading the book backward, starting from Ch.12; which explains the critical thinking methodology besides giving a very brief summary of the contents in the previous chapters.

- Establishes that abandoning the wave-particle-duality actually allows us to extract more realities out of quantum mechanics.
- Illustrates how the discovery of the NIW-property profoundly impacts several branches of fundamental

physics, including Doppler effect and hence the cosmological red shift

- Summarizes that many ad hoc hypotheses from physics can be removed, a la Occam's razor, while improving the reality and comprehension of some of the current working theories
- Demonstrates that our persistent attempts to restore causality in physical theories will be guided by our capability to visualize the invisible light matter interaction processes that are behind the emergence of all measurable data
- Draws close attention to the invisible but ontological interaction processes behind various optical phenomena so we can emulate them more efficiently and knowledgably in spite of limitations of our theories

Designed as a reference book for general physics and philosophy, this optical science and engineering book is an ideal resource for optical engineers, physicists, and those working with modern optical equipment and high precision instrumentation.

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