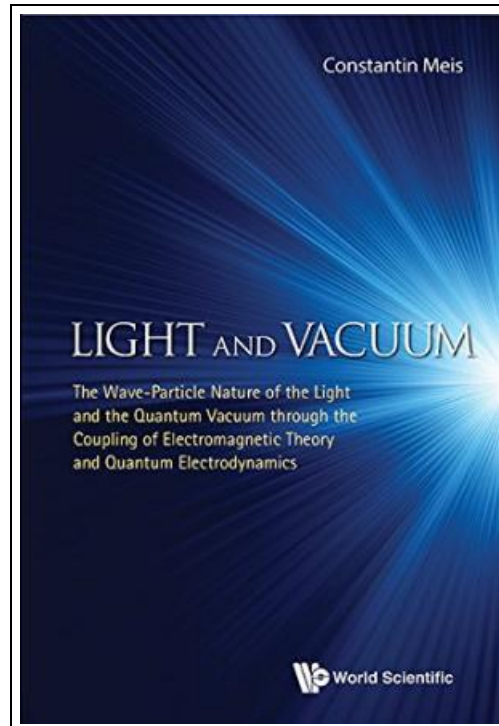


# Light and Vacuum: The Wave-Particle Nature of the Light and the Quantum Vacuum Through the Coupling of Electromagnetic Theory and Quantum Electrodynamics (Hardback)



Filesize: 6.42 MB

## **Reviews**

*Here is the finest publication i have read through until now. I am quite late in start reading this one, but better then never. I am just easily can get a pleasure of studying a created publication.*




**(Morgan Bashirian)**

## LIGHT AND VACUUM: THE WAVE-PARTICLE NATURE OF THE LIGHT AND THE QUANTUM VACUUM THROUGH THE COUPLING OF ELECTROMAGNETIC THEORY AND QUANTUM ELECTRODYNAMICS (HARDBACK)



To get **Light and Vacuum: The Wave-Particle Nature of the Light and the Quantum Vacuum Through the Coupling of Electromagnetic Theory and Quantum Electrodynamics (Hardback)** eBook, make sure you click the hyperlink beneath and download the document or gain access to other information that are in conjunction with **LIGHT AND VACUUM: THE WAVE-PARTICLE NATURE OF THE LIGHT AND THE QUANTUM VACUUM THROUGH THE COUPLING OF ELECTROMAGNETIC THEORY AND QUANTUM ELECTRODYNAMICS (HARDBACK)** book.

WORLD SCIENTIFIC PUBLISHING, Singapore, 2015. Hardback. Book Condition: New. 234 x 157 mm. Language: English . Brand New Book. Light and Vacuum presents a synthesis of selected fundamental topics of electromagnetic wave theory and quantum electrodynamics (QED) and analyzes the main theoretical difficulties encountered to ensure a coherent mathematical description of the simultaneous wave?particle nature of light, put in evidence by the experiments. The notion and the role of the quantum vacuum, strongly related to light, are extensively investigated. Classical electrodynamics issued from Maxwell's equations revealed the necessity of introducing the notion of volume for an electromagnetic wave to stand entailing precise values of cut-off wavelengths to account for the shape and dimensions of the surrounding space. Conversely, in QED, light is considered to be composed of point particles disregarding the conceptual question on how the frequency of oscillating electric and magnetic fields may be attributed to a point particle. To conciliate these concepts, the book provides a comprehensive overview of the author's work, including innovative contributions on the quantization of the vector potential amplitude at a single photon state, the non-local simultaneous wave?particle mathematical representation of the photon and finally the quantum vacuum. The purpose of the advanced elaborations is to raise questions, give hints and answers, and finally aspire for further theoretical and experimental studies in order to improve our knowledge and understanding on the real essence of Light and Vacuum.

-  [Read Light and Vacuum: The Wave-Particle Nature of the Light and the Quantum Vacuum Through the Coupling of Electromagnetic Theory and Quantum Electrodynamics \(Hardback\) Online](#)
-  [Download PDF Light and Vacuum: The Wave-Particle Nature of the Light and the Quantum Vacuum Through the Coupling of Electromagnetic Theory and Quantum Electrodynamics \(Hardback\)](#)
-  [Download ePub Light and Vacuum: The Wave-Particle Nature of the Light and the Quantum Vacuum Through the Coupling of Electromagnetic Theory and Quantum Electrodynamics \(Hardback\)](#)

## Other Kindle Books



**[PDF] Write Better Stories and Essays: Topics and Techniques to Improve Writing Skills for Students in Grades 6 - 8: Common Core State Standards Aligned**

Access the hyperlink listed below to read "Write Better Stories and Essays: Topics and Techniques to Improve Writing Skills for Students in Grades 6 - 8: Common Core State Standards Aligned" PDF document.

[Download Book »](#)



**[PDF] Everything Ser The Everything Green Baby Book From Pregnancy to Babys First Year An Easy and Affordable Guide to Help Moms Care for Their Baby And for the Earth by Jenn Savedge 2009 Paperback**

Access the hyperlink listed below to read "Everything Ser The Everything Green Baby Book From Pregnancy to Babys First Year An Easy and Affordable Guide to Help Moms Care for Their Baby And for the Earth by Jenn Savedge 2009 Paperback" PDF document.

[Download Book »](#)



**[PDF] Suzuki keep the car world (four full fun story + vehicles illustrations = the best thing to buy for your child(Chinese Edition)**

Access the hyperlink listed below to read "Suzuki keep the car world (four full fun story + vehicles illustrations = the best thing to buy for your child(Chinese Edition)" PDF document.

[Download Book »](#)



**[PDF] My Life as an Experiment: One Man s Humble Quest to Improve Himself by Living as a Woman, Becoming George Washington, Telling No Lies, and Other Radical Tests**

Access the hyperlink listed below to read "My Life as an Experiment: One Man s Humble Quest to Improve Himself by Living as a Woman, Becoming George Washington, Telling No Lies, and Other Radical Tests" PDF document.

[Download Book »](#)



**[PDF] The Country of the Pointed Firs and Other Stories (Hardscrabble Books-Fiction of New England)**

Access the hyperlink listed below to read "The Country of the Pointed Firs and Other Stories (Hardscrabble Books-Fiction of New England)" PDF document.

[Download Book »](#)



**[PDF] Klara the Cow Who Knows How to Bow (Fun Rhyming Picture Book/Bedtime Story with Farm Animals about Friendships, Being Special and Loved. Ages 2-8) (Friendship Series Book 1)**

Access the hyperlink listed below to read "Klara the Cow Who Knows How to Bow (Fun Rhyming Picture Book/Bedtime Story with Farm Animals about Friendships, Being Special and Loved. Ages 2-8) (Friendship Series Book 1)" PDF document.

[Download Book »](#)

**[PDF] Being Nice to Others: A Book about Rudeness**

Click the hyperlink listed below to read "Being Nice to Others: A Book about Rudeness" document.

[Save Book »](#)

**[PDF] It's Just a Date: How to Get 'em, How to Read 'em, and How to Rock 'em**

Click the hyperlink listed below to read "It's Just a Date: How to Get 'em, How to Read 'em, and How to Rock 'em" document.

[Save Book »](#)

**[PDF] Index to the Classified Subject Catalogue of the Buffalo Library; The Whole System Being Adopted from the Classification and Subject Index of Mr. Melvil Dewey, with Some Modifications .**

Click the hyperlink listed below to read "Index to the Classified Subject Catalogue of the Buffalo Library; The Whole System Being Adopted from the Classification and Subject Index of Mr. Melvil Dewey, with Some Modifications." document.

[Save Book »](#)

**[PDF] On Becoming Baby Wise, Book Two: Parenting Your Five to Twelve-Month Old Through the Babyhood Transition**

Click the hyperlink listed below to read "On Becoming Baby Wise, Book Two: Parenting Your Five to Twelve-Month Old Through the Babyhood Transition" document.

[Save Book »](#)

**[PDF] Monkeys Learn to Move: Puppet Theater Books Presents Funny Illustrated Bedtime Picture Values Book for Ages 3-8**

Click the hyperlink listed below to read "Monkeys Learn to Move: Puppet Theater Books Presents Funny Illustrated Bedtime Picture Values Book for Ages 3-8" document.

[Save Book »](#)

**[PDF] Growing Up: From Baby to Adult High Beginning Book with Online Access**

Click the hyperlink listed below to read "Growing Up: From Baby to Adult High Beginning Book with Online Access" document.

[Save Book »](#)