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Quantum theory describes that matter, and light consists of minute particles that have properties of waves that are associated with them. Light

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consists of particles known as photons and matter are made up of particles known as protons, electrons, and neutrons. Let's understand how the light behaves as a particle and as a wave.

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*Quantum Theory  
of Light Wave-  
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Constant and the  
Speed of Light.

When solving  
numerical

problems in the

Quantum Theory  
of Light it is  
useful to note

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that the product  
of Planck's  
constant  $h =$   
 $6.6261 \times 10^{-34} \text{ J s}$

(1) and the  
speed of light  
 $c = 2.9979 \times 10^8 \text{ m}$   
 $\text{s}^{-1}$  (2) is  $hc =$   
 $1239.8 \text{ eV nm} =$   
 $1239.8 \text{ keV pm} =$   
 $1239.8 \text{ MeV fm}$

(3) where  $\text{eV} =$   
 $1.6022 \times 10^{-19} \text{ J}$

(4) Wien's



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*Solved Problems  
in the Quantum*

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Quantum theory  
of light By the  
end of the 19th  
century, the  
battle over the  
nature of light  
as a wave or a  
collection of  
particles seemed

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over. James Clerk Maxwell's synthesis of electric, magnetic, and optical phenomena and the discovery by Heinrich Hertz of electromagnetic waves were theoretical and experimental

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*Light - Quantum  
theory of light  
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Quantum Light.

Light is  
normally thought  
of as an  
electromagnetic  
wave at optical  
frequencies.

What we call

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Light can reasonably be extended to the near infrared and ultraviolet parts of the spectrum, all of which satisfy Maxwell's equations for the electromagnetic field. We can use these to

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write down a wave equation for the electric and magnetic fields whose solution is waves which travel at speed  $c$  - the speed of light and one of the fundamental constants of the universe.

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*Quantum Theory*

*of Light – CNQO*

Lasers were  
created 60 years

ago this year,

when three

different laser

devices were

unveiled by

independent

laboratories in

the United

States. A few

years later, one

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of these

inventors called  
the unusual

light sources "a  
solution seeking  
a problem".

Today, the laser  
has been applied  
to countless

problems in  
science,

medicine and  
everyday

technologies,

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with a market of  
more than US\$11  
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Wave-Particle  
Duality of  
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theory tells us  
that both light  
and matter



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consists of tiny particles which have wavelike properties

associated with them. Light is composed of particles called photons, and matter is composed of particles called electrons, protons,

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neutrons. It's  
only when the  
mass of a  
particle gets  
small enough  
that its  
wavelike  
properties show  
up.

*Quantum Theory*

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It is denoted by

'c'. Velocity of  
light =  $c = 3.0$   
 $\times 10^8 \text{ m}\cdot\text{sec}^{-1}$

$= 3.0 \times 10^{10}$

$\text{cm}\cdot\text{sec}^{-1}$ . Note:

For all types of

electromagnetic

radiations, the

velocity is a

constant value.

The relation

between velocity

(c), wavelength

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( $\lambda$ ) and  
frequency ( $\nu$ )  
can be given by  
following

equation.

velocity =  
frequency x  
wavelength.

*LIGHT & QUANTUM*

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Einstein

proposed a

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Quantum theory of light to solve the difficulty and then he realised that Planck's theory made implicit use of the light quantum hypothesis. By 1906 Einstein had correctly guessed that

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energy changes  
occur in a  
quantum material  
oscillator in  
changes in jumps  
which are  
multiples of  $\hbar \nu$   
 $\hbar \nu$   
where  $\hbar$   
 $\hbar$  is Planck 's  
reduced constant  
and  $\nu$  is the  
frequency.

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Quantum

mechanics,

science dealing

with the

behaviour of

matter and light

on the atomic

and subatomic

scale. It

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attempts to describe and account for the properties of molecules and atoms and their constituents—electrons, protons, neutrons, and other more esoteric particles such as quarks and



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gluons.

*quantum*

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*Definition,*

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mechanics arose

gradually, from

theories to

explain

observations

which could not

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be reconciled with classical physics, such as Max Planck's solution in 1900 to the black-body radiation problem, and the correspondence between energy and frequency in Albert Einstein's 1905 paper which explained

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The earlier  
chapters  
describe the  
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Various optical  
processes,  
leading from the  
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representation  
of the  
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of light. The  
later chapters  
develop the  
theoretical  
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some of the key experiments in quantum optics. Over half of the material in this Third Edition is new.

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The coherence  $C$  is roughly the

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number of photons  
(particles of light) emitted consecutively into the beam with the same phase (all waving together). For typical lasers,  $C$  is very large. Billions of...



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Planck's quantum theory explains emission and absorption of radiation.

Postulates of Planck's quantum theory are as follows - Matter radiate energy

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or absorb energy in discrete quantities discontinuously in the form of small packets or bundles. The smallest bundle or packet of energy is known as quantum. In case of light, a quantum of light is known as a

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Einstein's early contributions to quantum theory include his heuristic suggestion that light behaves as if it is composed of

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photons, and his  
exploration of  
the quantum  
structure of the  
mechanical  
energies of  
particles  
embedded in  
matter.

*Albert Einstein:  
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On quantum  
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scales, light travels in packets which we now call

photons, but also reliably follows

Maxwell's equations, which describe the dynamics of classical electromagnetic waves.

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*Unifying quantum  
mechanics with  
Einstein's*

*general ...*

And a British  
University  
lecturer has now  
suggested a  
solution to one  
of the greatest-  
ever mysteries  
of quantum  
mechanics. By



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