SCIENTIFIC REVOLUTION,

PHYSICAL SCIENCES

SUMMARY OF SCIENTIFIC DICOVERIES

SCIENTIFIC REVOLUTION,

Physical sciences

Summary :

Personal scientific research work in Physical Sciences: the supplements to newtonian classical mechanics and the electromagnetic theory of light by J. Maxwell and my hypothesis in quantum mechanics

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PERSONAL SCIENTIFIC RESEARCH WORK IN PHYSICAL SCIENCES

Summary of scientific discoveries,

SCIENTIFIC REVOLUTION

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Summary and overview of scientific discoveries

I - Discoveries

1) The laws of classical Newtonian mechanics remain valid when the speed of the moving object is less than the terminal velocity at the moving body (the speed at which, if the moving body wherein rotational movement it would collapse) : see page 28 of the research document;

2) The shortest path to the moon (see page 38 of the research document);

3) The energy carried by a progressive wave is proportional to its wavelength λ;

4) The stability of a standing wave or standing waves is due to the invariance of the amount of energy it carries from the excitatory source (see page 45 of the research document).

II - Important scientific laws, theorem, formulas or relationships established

1) The mass relationship of solid bodies in rotational movement and for no-relativistic particles: $m = \frac{m_0}{\sqrt{1+\frac{v^2}{\bar{v}e^2}}}$, see page 25 of the research document

2) The mass relation of relativistic particles, except for the photon: $m = \frac{m_0}{\sqrt{1+\frac{v^2}{c^2}}}$, see page 34 of the research document;

3) The mass energy constant of a solid body at rest: $k_m = 0.139732\,1884\ J \cdot m^2 \cdot N^{-1}$, see page 18 of the research document;

4) Mass energy of a solid body at rest:

$E_0 = -k_m \times m_0 v_0$ (see page 16 of the research document);

5) Kinetic energy of relativistic particles, except the photon : $E_c = \frac{m_0 c^2}{2\sqrt{2}} = \frac{m_0 \sqrt{2} c^2}{4}$ (see page 37 of the research document);

6) Relationship between threshold energy and pressure : $|\Delta E| = k \times P_{rmin}$ (see page 16 of the research document), and $P_{rmin} = \frac{F_t}{S_{min}}$ (see page 16 of the research document);

7) Velocity superposition theorem (see page 34 of the research document);

8) $\frac{E_c}{F} = \frac{E_c'}{F'} = d$ (see page 34 of the research document);

9) The limiting collision speed of a photon : $v_{ph} = 2c$, and $c = 3.10^8 m/s$; and the limiting speed from which a plane mirror could be traversed by an entangled photon is between c and 2c, that is $c < v_e < 2c$ (see page 47 of the research document);

10) $\lambda = \frac{E}{k_0} = \frac{v}{f}$, (see page 45 of the research document).

III - Important demonstration (see page 37 of the research document)

IV - The mathematical properties of the course that should undergo modification

Einstein's mass relationship: $m = \frac{m_0}{\sqrt{1 - \frac{v^2}{c^2}}}$

V - Manufactured material

Tossou tube (see page 39 and page 49/i of the research document)

VI - Research still ongoing

How to develop a chemical battery powered by pure lemon juice