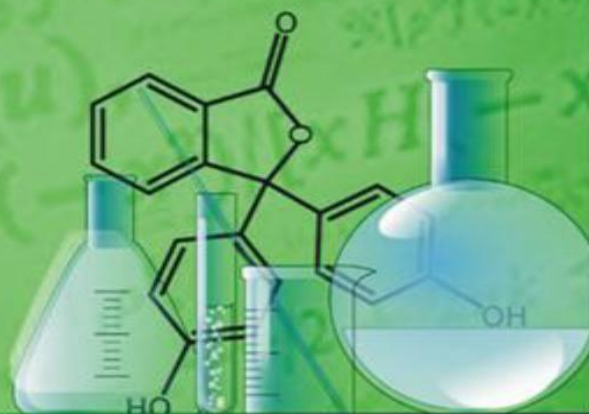
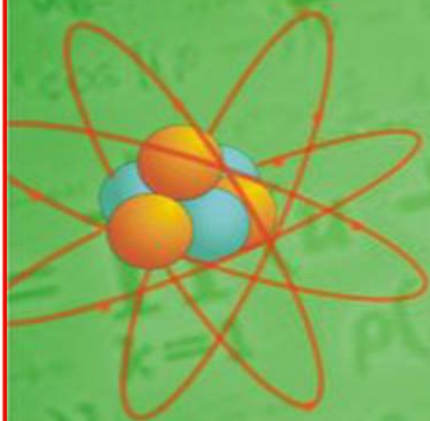


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S. No	Volume-1 Issue-11, January 2016, ISSN: 2394-367X (Online) Published By: Blue Eyes Intelligence Engineering & Sciences Publication Pvt. Ltd.		Page No.
	Authors:	Md. Minhaj Ahmed	
	Paper Title:	Physics of Optics and Time	
1.	<p>Abstract: A brief proposition on the nature of light waves and how it affects the measurement of observers. Imagine a stationary observer who is at a distance D, away from a stationary source of light that emits a light signal at a constant period t, and let's assume that both parties are provided with a clock. If the source of light emits a light signal that travels away to the observer for a period of time t, both parties will agree that there is no change in the wavelength of the light wave emitted. More also, both parties will agree that their respective clocks records same time t, for the period of the light signal. Now consider a similar instance where the source of light travels some meters during the same time t, as the period of the emitted light wave, the wavelength of the light wave recorded by a device attached to the source of the light will be different from the wavelength recorded by the stationary observer. Also, the clock attached to the moving source of light will disagree with the clock of the stationary observer over the period t, of motion of emitted light wave. The conclusion from the above instance is that: 1. There is No change in the measurement of the clocks of both parties when there is No change in the property of the light wave emitted. 2. There is a change in the measurement of the clocks of both parties when there is a change in the property of the light wave emitted. It is clear that the motion of the light source creates a change in the physical property of the light wave. As I proceed in this article, I will show that the simple act of creating a change in the physical properties (wavelength) of the waves, automatically creates a difference in the measurements of observers of different frames. This change in the physical property of the light waves can make physical measurements of different frames to appear relative in nature depending on the magnitude of the disturbance produced in the waves of light.</p> <p>Keywords: Optics, Law of Reflection, Refraction, Superposition, Diffraction, Dispersion, Polarization</p> <p>References:</p> <ol style="list-style-type: none"> Sir Thomas Little Heath (1981). A history of Greek mathematics. Volume II: From Aristarchus to Diophantus. ISBN 978-0-486-24074-9. Farin, Gerald; Hansford, Dianne (2005). Practical linear algebra: a geometry toolbox. A K Peters. pp. 191–192. ISBN 978-1-56881-234-2. Comminos, Peter (2006). Mathematical and computer programming techniques for computer graphics. Springer. p. 361. ISBN 978-1-85233-902-9. Scott M. Juds (1988). Photoelectric sensors and controls: selection and application. CRC Press. p. 29. ISBN 978-0-8247-7886-6. 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Authors:	Md. Minhaj Ahmed, Sayyed Tajuddin					
Paper Title:	Rocket Net Force					
2.	<p>Abstract: Net force refers to what you get when you consider the total effect of all the forces acting on something. If two equal forces are acting in opposite directions, the net force is zero. A net force acting on an object causes the object to accelerate. The study of rockets is an excellent way for students to learn the basics of forces and the response of an object to external forces. The motion of an object in response to an external force was first accurately described over 300 years ago by Sir Isaac Newton, using his three laws of motion. Engineers still use Newton's laws to design and predict the flight of full scale rockets. Forces are vector quantities having both a magnitude and a direction. When describing the action of forces, one must account for both the magnitude and the direction. In flight, a rocket is subjected to four forces; weight, thrust, and the aerodynamic forces, lift and drag.</p> <p>Keywords: Rocket Net Force, Newton's Laws of Inertia, Aeronautics force, Drag, Lift, Weight, Thrust, Rocket Design.</p> <p>References:</p> <ol style="list-style-type: none"> Crosby, Alfred W. (2002). Throwing Fire: Projectile Technology Through History. Cambridge: Cambridge University Press. pp. 100–103. ISBN 0-521-79158-8. NASA Spacelink - "A brief history of rocketry". Retrieved 2006-08-19. Hassan, Ahmad Y. "Transfer Of Islamic Technology To The West, Part III: Technology Transfer in the Chemical Industries". History of Science and Technology in Islam. Retrieved 2008-03-29. History of the Rocket - 1804 to 1815 by Gareth Glover Rockets and Missiles By A. Bowdoin Van Riper HISTORY OF ROCKETRY: Verein für Raumschiffahrt (VfR)". Daviddarling.info. 2007-02-01. Retrieved 2012-06-14. (Glenn Learning Technologies Project) Available: http://www.grc.nasa.gov/WWW/K-12/about/tp/EducationalTechnologyApplications.html National Aeronautics and Space Administration. Beginner guide to Rockets. [Online]. Available: https://spaceflightssystemsgrc.nasa.gov/education/rocket/shortr.html Available: http://wikipedia.org von Braun, Wernher. The Redstone, Jupiter and Juno. Technology and Culture, Vol. 4, No. 4, The History of Rocket Technology (Autumn 1963), pp. 452-465. "International Space Hall of Fame: Sergei Korolev". Nmpaceuseum.org. Retrieved 2012-06-14. Rocket R-7". S.P.Korolev RSC Energia. Hansen, James R. (1987) "Engineer in Charge: A History of the Langley Aeronautical Laboratory, 1917-1958." The NASA History Series, sp-4305. Chapter 12. "A Rocket Drive For Long Range Bombers by E. Saenger and J. Bredt, August 1944" (PDF). Retrieved 2012-12-10. Winter, Frank H; van der Linden, Robert (November 2007), "Out of the Past", Aerospace America, p. 39 "The Internet Encyclopedia of Science, history of rocketry: Opel-RAK". Daviddarling.info. Retrieved 2012-12-10. Launius, Roger D.; Jenkins, Dennis R. (2012). Coming home : reentry and recovery from space (PDF). Washington, DC: National Aeronautics and Space Administration. p. 187. ISBN 978-0-16-091064-7. Retrieved 3 April 2015. "Returning from Space: Re-entry" (PDF). Federal Aviation Administration. U.S. Department of Transportation. Washington, DC 20591. FOIA Library. pp. 4.1.7-335. Retrieved 7 April 2015. "MLRS (Multiple Launch Rocket System), United States of America". army-technology.com. 2014 Kable, a trading division of Kable Intelligence Limited. Retrieved 3 July 2014. "NASA's great observatories". Nasa.gov. Retrieved 2012-12-10. "NASA History: Rocket vehicles". Hq.nasa.gov. Retrieved 2012-12-10. Wade, Mark. "Soyuz T-10-1". astronautix.com. Encyclopedia Astronautica. Retrieved 24 June 2014. "NASA- Four forces on a model rocket". Grc.nasa.gov. 2000-09-19. Retrieved 2012-12-10. "Space Shuttle Use of Propellants and Fluids" (PDF). Nasa.gov. Retrieved 2011-04-30. Huzel, D. K.; Huang, D. H. (1971), NASA SP-125, Design of Liquid Propellant Rocket Engines (2nd ed.), NASA NASA (2006), "Rocket staging", Beginner's Guide to Rockets (NASA), retrieved 2009-06-28 MSFC History Office, "Rockets in Ancient Times (100 B.C. to 17th Century)", A Timeline of Rocket History (NASA), retrieved 2009-06-28 	11-18				
3.	<table border="1"> <tr> <td>Authors:</td> <td>Awatif M. A. El Siddieg</td> </tr> <tr> <td>Paper Title:</td> <td>Practical Implementation of Newton's Method Tested on Quadratic Functions</td> </tr> </table>	Authors:	Awatif M. A. El Siddieg	Paper Title:	Practical Implementation of Newton's Method Tested on Quadratic Functions	
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Abstract: In this work we give a detailed look to the Practical implementation of Newton's method tested on quadratic functions. Section (1) speak about the theory of optimization problems, introduce definitions and theorems of linear programming problems , definitions and theorems of quadratic programming problems . Section (2) introduce some methods that has a relationship with our method . In section(3) we look at a method for approximating solutions to equations, solving unconstrained optimization problems. The general theory of the problem is described. Section(4) gives practical implementation of Newton's method tested on quadratic functions to test the theoretical results shown in the work. Section (1)

Keywords: linear programming problems, Practical implementation of Newton's, quadratic functions.

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