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	Paper Title:	Performance Evaluation of a Small-Medium Scale Yam Chips Dryer	
	<p>Abstract: The design, construction and performance evaluation of a yam chips dryer using fuel wood as source of heat was undertaken with a view to helping small scale farmers process yam chips. The dryer consists of a frame, drying chamber, tray, fuel wood housing, perforated air space and chimney. The dryer was evaluated in terms of final moisture content, drying capacity; time taken to dry the chips and the quality of the chips. Results showed that the moisture content of 71.05% (wb) was reduced to 17.23% , the drying capacity was 6kg per loading and the time taken to dry the chips was increased to about 4hrs due to difficulty in regulating the heat produced by the fuel wood. Compared to other types of dryers (solar dryer, platform dryer, flat – bed dryer, continuous dryer e.t.c), the batch type dryer is preferred due to its ability to be used during rainy season and in the absence of electricity. The quality of the chips was found to be good. The dryer has an efficiency of 76%. The evaluation of the dryer shows that it can be used for small scale drying of yam chips.</p> <p>Keywords: Batch type dryer, fuel wood, small scale, performance evaluation, yam chips.</p> <p>References:</p> <ol style="list-style-type: none"> Akingbala, J., Oguntimehin, T., and Sobande, A. O., Physicochemical properties and acceptability of yam flour substituted with is flour. <i>Plants Foods for Human Nutrition</i>, 48(1), pp. 73-80, 1995. Akissoe, N., Hounhonigan, D. J., Brias, N., Vernier, P., Nagô, C. M. and Olorunda, A. O., Physical chemical and sensory evaluation of dried yam (<i>Dioscorea rotundata</i>) tubers flours and "amala" a flour derived product. <i>Tropical Science</i>, 41(1), pp. 151-155, 2001 Montes, E., Torres, R., Andrade, R., Perez, O., Marimon, J. and Meza, I., Models of desorption isotherms of yam (<i>Dioscorea rotundata</i>). <i>Dyna</i>, 76(154), P. 146, 2009. Opara, L., Yam storage in Agriculture processing. <i>Handbook of agricultural engineering</i>, IV, pp. 182-214. 1999 Ruiz, A., and Montero, I., Drying lot of industrial residuals of the olive. <i>Alimentación equipos y tecnología</i>, 24, pp. 122-134, 2005. Cardoso, A., and Asis, F., Comparison of mathematical models of isothermic heat of desorción in pulp of Guava. <i>Brazil journal storage</i>, 29(1), pp. 28-34, 2004. Babaleye, T. (2003). "West Africa; Improving Yam Production Technology". ANB – BIA supplement Issue/Edition Nr 463. Central Bank of Nigeria (2002). <i>Statistical Bulletin</i>, CBN Publication, 252 -260pp. CGIAR (1997). <i>Priorities and Strategies for resource allocation during 1998 – 2000</i>. www.igiar-org, Consultative Group on international Agricultural Research. Food and Agriculture Organisation (FAO) (1987). "Formulation Reports: Roots and Tubers Expansion Programme". FAO, Rome, Italy. Food and Agriculture Organisation (FAO) (2002). <i>Food and Agriculture Organisation year book Volume 56</i>. International Institute of Tropical Agriculture (IITA) (1998). <i>Annual Report</i>, IITA, Ibadan, 1- 15 pp. Kalu, B.R and Erhabor, P.O. (1992). Production and Economic evaluation of white guinea yam minisett under ridge and bed production system in a tropical guinea savanna location, Nigeria. <i>Tropical Agriculture</i>, Trinidad, 61 : 78 – 81 Osisiogu I.U.W, Uzo, J.O. (1973). Industrial Potential of some Nigeria Yam and Cocoyam Starches, <i>Tropical Science</i>, 15 : 353 – 359 Oyenuga, V.A. (1968). <i>Nigeria Food and Feedstuff</i>, University Press, Ibadan, pp 20 – 27 Nweke FI, Ugwu BO, Asadu CL, Ay P. Production cost in the yam based cropping system south western Nigeria. <i>Research monograph No. 6 IITA Ibadan</i>, Nigeria 1991; pp 4-12 Agwu AE, Alu JI. Farmers perceived constraints to yam production in Benue state, Nigeria. <i>Proceedings of the 39th Annual Conference of the Agricultural society of Nigeria 2005</i>; pp 347-50. Iwueke CC. Mbata EN, Okereke HE. Rapid Multiplication of seed yam by minisett technique National Root Crops Research Institute, Umudike Abia State, Nigeria. <i>Advisory Bulletin 2003</i>; No. 9 pp 5. Food and Agricultural Organization (FAO) (2008) <i>FAOSTAT Statistical Division of the FAO of the United Nations Rome, Italy 2008</i>; www.faostat.org 		1-4
2.	Authors:	Sanjay Salla, Jayeshkumar Pitroda, B. K. Shah	
	Paper Title:	Comparative Study on Rice Husk and Ground Nut Shell in Fly Ash Bricks	
	<p>Abstract: In India, large quantities of fly ash being generated, as most of our energy demand is met through coal based thermal power station. The fly ash generation is expected to grow further as coal would continue to remain major source of energy at least for next 25 years. The fly ash which is a resource material, if not manage well, may pose environmental challenges. At the same time world-wide agricultural footprint is fast growing, with vast agricultural land cultivation and active expansion of the agro based industries. The resulting large quantities of agricultural wastes, unfortunately, are not always well managed or utilized. These wastes can be recycled, such as by retrieving fibres from disposed leaves and fruits bunches, and then incorporate in brick making. The Agricultural Waste was sourced from Rice Husk and Ground Nut Shell added within the range. This research describes change in the physical properties such as weight, density etc. and mechanical properties like compressive strength of fly ash bricks made by adding different Agricultural Waste.</p> <p>Keywords: Agricultural Waste Fly Ash Bricks, Agro-waste in Bricks, Fly ash bricks with agro-waste.</p> <p>References:</p> <ol style="list-style-type: none"> Aashish Kumar Parashar, RinkuParashar (2012), "Comparative Study on Compressive Strength of Bricks Made With Various Materials to Clay Bricks.", <i>International Journal of Science and Research Publication</i>, Volume 2, Issue 7, July. Chee-Ming Chan – Effects of Natural Fibres Inclusion in Clay Bricks: Physco-Mechanical Properties, <i>International Journal of Civil and Environmental Engineering</i>, March 2011. J. Clerk Maxwell, <i>A Treatise on Electricity and Magnetism</i>, 3rd ed., vol 2. Oxford: Clarendon, 1892, pp.68-73. Jayesh Pitroda, Rajiv Bhatt, Indrajit Patel, and Dr. F.S.Umrigar, - Techno- Economical Study of FAL-G bricks-A Case study, <i>National conference on fly ash/ Futuristic Material in civil Engineering Construction For Sustainable Development</i>, pp. 1-2, 2010. Malaviya S K, Chatterjee B and Singh K K (1999), "Fly ash- an emerging alternative building material", <i>proceedings of National Seminar</i>, February 26-27 1999, pp. 59. 		5-8

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	Paper Title:	Optimization of Geometrical Parameters of Gate-all-around Tunnel FET for Analog RF Applications
	Abstract: This paper presents the gate oxide thickness, gate oxide material, gate material and gate contact alignment variation impact on on-current, off-current, subthreshold swing, RF and stability performance of Gate-all-around Tunnel FET. The RF figures of Merit (FoM) such as cut-off frequency (ft) and maximum oscillation frequency (fmax) along with Stability factor (K) and dc parameters are calculated for different gate oxide thickness, gate oxide material, gate material and gate contact alignment. One parameter is varied at a time to show the resulting fluctuations in the device characteristics. The process variations show significant changes in the device performance and provide information about acceptable variations and design guidelines for GAA-TFET.	
	Keywords: Gate-all-around Tunnel FET, Band-to-band Tunneling, Radio Frequency (RF), Technology Computer Aided Design (TCAD).	
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	Authors:	S. B. Shivakumar, Ramesh B. E, Kavitha G. M, Mala M
	Paper Title:	Multi Cloud Architecture for Improved User Experience
	Abstract: Use of cloud computing has increased rapidly in many organizations. There are many commercial cloud providers. Each one provides different storage plans & different QOS like time delay, availability. The QOS parameters & plans vary over a period of time. Every time the user cannot move his data from one cloud provider to another for the cost & QOS optimization. Cloud users also have security & auditing requirement for his data in terms who are accessing it & what frequency in which his data is accessed. To address these requirements of the users, we propose a solution using multi cloud architecture. Our solution will reduce the burden on the users in migration & meeting his security challenges. Our platform will provide the best cost optimization for the security & storage requirements of user.	
	Keywords: Cloud computing, single cloud, multi-clouds, cloud storage, data integrity, data intrusion, service availability.	
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5.	<div>Authors: Kartheek B. V, Manojkumar S. B, M. B. Anandaraju</div> <div>Paper Title: Design and Implementation of Modified Adaptive Filtering Algorithm for Noise Cancellation in Speech Signal on FPGA for Minimum Resource Usage</div> <div>Abstract: In recent years FPGA systems are replacing dedicated Programmable Digital Signal Processor (PDSP) systems due to their greater flexibility and higher bandwidth, resulting from their parallel architecture. This paper presents the applicability of a FPGA system for speech processing. Here adaptive filtering technique is used for noise cancellation in speech signal. Least Mean Squares (LMS), one of the widely used algorithms in many signals processing environment, is implemented for adaption of the filter coefficients. The cancellation system is implemented in VHDL and tested for noise cancellation in speech signal. The simulation of VHDL design of adaptive filter is performed and analysed on the basis of Signal to Noise ratio (SNR) and Mean Square Error (MSE).When compared with previous methodology this paper achieves nearly 93% of accuracy.</div> <div>Keywords: Adaptive Filter, LMS Algorithm, Active Noise cancellation, VHDL Design, SNR, MSE.</div> <div>References:<div>1. L. I. Eriksson, M. C. Allie, and C. D. Bremigan, "Active Noise Control using Adaptive digital Signal Processing " in Proc. ICASSP , New York, 2004 pp. 2594-2597</div><div>2. Dimitris G. Manolakis, Vinay K. Ingle, and Stephen M. Kogon, "Statistical and Adaptive Signal Processing", McGraw- Hill, 2000.</div><div>3. Simon Haykin. "Adaptive Filters Theory" Pearson Education, x 10' 2008. 3.5 4</div><div>4. R. Vijaykumar, P. T. Vanathi & P. Kanagasapabathy, "Modified Adaptive Filtering Algorithm for Noise Cancellation in Speech Signals" Elektronika ISSN 1392 -1215 2007. No. 2(74)</div><div>5. C. Mosquera, I.A. Gomez "Adaptive Filters for Active Noise Control" , Sixth international congress on sound and vibration Copenhagen, Denmark</div><div>6. Colin H. Hansen" Understanding Active Noise Cancellation " IOS Press -2002</div></div>	18-21	
	<div>Authors: Archana Bhat</div> <div>Paper Title: Analysis of Ripple Content in DC-DC Converters</div> <div>Abstract: The DC-DC converter has the major applications in LED, lamp flashers and computers, also in industrial applications like batteries, solar cells, drives, motors.etc. In this propose study the comparison of two switches in DC-DC Converters are taken, which are MOSFET, IGBT. DC-DC converters which are used in proposed method is buck and buck-boost converter. Outputs parameters are output voltage, output current, capacitor voltage, inductor current, ripple content in the output respectively.The simulation has done by using P-Spice software using Cadence tool, and then implemented using hardware components. Variation in the inductance and capacitance variation is done. By this analysis the dynamic response, steady state response, ripple and variation in the output can be found. By comparing hardware results and simulation results the better switch among them can be found. The proposed method consists of designing, simulation and stability analysis in transient state as well as in steady state. The best switch is used in dc-dc converter.</div> <div>Keywords: Dynamic state, Steady state, Ripple content, Buck converter, Buck-boost converter.</div> <div>References:<div>1. Application Note Series on "Understanding Linear Power Supply Specifications"</div><div>2. M H Rashid " Power Electronic Circuits And Devices", Power Electronics, Sep 1, 2003, No.908, pp. 96-116</div><div>3. Richard Wies, Bipin Satavalekar, And Ashish Agrawal "Power Electronic Circuits And Controls", Power Electronics, 2001, pp. 9-10</div><div>4. V. Ramanarayanan "Course Material on Switched Mode Power Conversion", Power electronics, 2002, vol.38, no.104, pp. 109-138</div><div>5. Sung-Roc Jang, Hong-Je Ryoo, GennadiGoussev, and GeunHie Rim "Comparative Study of MOSFET and IGBT for High Repetitive Pulsed Power Modulators," Plasma Science, December 2011, pp. 1-8</div><div>6. Tulbure, D. Turschner, M. Abrudean, E. Ceuca, and R. Ormenisan, "Experimental comparation of switching with IGBT and MOSFET," in Proc. IEEE AQT, May 28–30, 2010, vol. 2, pp. 1–5</div><div>7. Jianjing WANG, Henry Shu-hung CHUNG "Characterization and Experimental Assessment of the Effects of Parasitic Elements on the MOSFET Switching Performance" Power Electronics, 2011, pp. 1-57</div><div>8. Daniel W. Hart "Power Electronics" Power Electronics, 2011, pp. 197-226</div><div>9. Muhammad H. Rashid "Power Electronic Devices", Power Electronics, Third Edition 2007, pp. 1-28</div><div>10. Muhammad H. Rashid "Power Electronics Handbook", Power Electronics, 2001, pp. 63-69</div><div>11. Agrawal, J. P., "Power Electronics Systems: Theory and Design", Prentice-Hall, Upper Saddle River, NJ, 2001, chapter. 6</div><div>12. Mohan, N., Undeland, T. M.,and Robbins, W. P., "Converters, Applications, and Design", Power Electronics, Second edition., John Wiley & Sons, New York, 1995, chapter. 7</div><div>13. Roy W. Goody, " DC and AC Circuits", OrCAD PSpice for Windows Volume 1 Englewood Cliffs, NJ: Prentice-Hall, 2000</div><div>14. M. H. Rashid, "SPICE for power electronics and electric power", Power electronics,Second edition,2003, pp.10-18</div></div>	22-27	
		<div>Authors: Suvarna M, Prabhavathi K, M. B .Anandaraju, Nuthan A. C</div> <div>Paper Title: Design and Implementation of Highly Secure Cryptosystem for Image Encryption</div> <div>Abstract: Chaos based encryption may offer new quality in secure data transmission. Recently proposed chaotic key based algorithms are found to be more susceptible to the known plain text attacks and cipher text attacks. In this paper</div>	

7.	<p>BB (Brahmagupta-Bhaskara) equation is combined with chaos to give a non linear dependency and thus improved security. The proposed algorithm is designed and realized using MATLAB and Xilinx ISE software.</p> <p>Keywords: Chaotic map, Security, BB equation, Image encryption.</p> <p>References:</p> <ol style="list-style-type: none">1. P. Dang and P. M. Chau, "Image Encryption for Secure Internet Multimedia Applications', IEEE Transactions on Consumer Electronics, Jui-cheng .. Yen and Jiun-In Guo,"A New Chaotic Key Based Design for Image Encryption and Decryption", Proc.IEEE International Symposium on Circuits and Systems, May 2S-31, 2000, Geneva, Switzer; and, vol.IV, pp.49-52..3. L.H. Zhang, X.F. Liaom and X.B. Wang, "An Image Encryption Approach Based on Chaotic maps", Chaos, Solitons and Fractals, vol1.24, pp.759-765, may 2005.4. SJ. Xu, Y.L. Wang, J. Z. Wang and M.Tian, "Cryptanalysis of TwoChaotic Image Encryption Schemes Based on Permutation and XOR operations", 200S International Conference on Computational Intelligence and Security, vol.2,pp.433-437, Dec.200S.5. M.I. Sobhy, and A.R.Shehata,"Methods of attacking chaotic encryption and countermeasures,"Proc.IEEE International ConfAcoustics, Speech, and signal processing (ICASSP 200 I), vol.2, pp.1001-1004.6. S.I.Li and X.Zheng,"Cryptanalysis of a Chaotic Image encryption Method", IEEE International Symposium on circuits and Systems (ISCAS 2002), volL2, pp.708-7II, 2002.7. G.Alvarez, F.Montoya, M.Romera, and G. Pastor, "Cryptanalysing a discrete time chaos synchronization secure communication systems," Chaos, Solitons and fractals, 2003, volL2I, no.3, pp.689-694.8. N.Rama Murthy and M.N.S.Swamy,"Cryptographic Applications of Brahmagupta Bhaskara Equation", IEEE Transactions on circuitS-I, Regular papers, volL53, July2006, pp.I565-I571.9. A.M. Youssef, A comment on "Cryptographic applications of Brahmaguptha Bhaskara equation, IEEE Trans.Circuits Syst, 1, Reg papers, volL54, no.4, pp.927-928.10. G. Alvarez, L.H. Encinas, and J.M. Masque, "Known Plaintext Attack To Two Cryptosystems Based On The BB Equation", IEEE Transactions on Cicuits and Systems II: Express Briefs Volume 55, Issue 5, May 2008 page(s): 423-426.11. B. Dutta and A. N. Singh, History of Hindu Mathematics: A Source Book. Bombay, India: Asia Publishing House, 1962.12. M. N. S. Swamy, "Brahmagupta's theorems and recurrence relations,"The Fibonacci Fibonacci Quarterly, vol. 36, no. 2, pp. 125-128, May 1998.13. T. S. Bhanu Murthy, A Modern Introduction to Ancient Indian Mathematics. New Delhi, India: Wiley Eastern Ltd., 1994.14. L. E. Dickson, History of the Theory of Numbers. NewYork: Chelsea, 1952, vol. II, ch. XII, p. 341.15. M. R. Schroeder, Number Theory in Science and Communication, Second Enlarged Edition ed. New York: Springer-Verlag, 1990, pp.201-202.16. N. R. Murthy and M. N. S. Swamy, "On the Solutions of the Congruences ,", to be published.17. S. Barnard and J. M. Child, Higher Algebra. London, U.K.:Macmillan and Co, 1960, ch. XXXIII, p. 535.18. G. Chrystal, Algebra—An Elementary Text-Book, Part II. New York:Dover, 1961, ch. XXXIII, pp. 478-479.19. R. A. Mollin, Fundamental Number Theory with Applications. Boca Raton, FL: CRC, 1998, p. 102.20. B. Schneier, Applied Cryptography: Protocols, Algorithms and Source code in C. New York: Wiley, 1996.	28-31				
8.	<table><tr><td>Authors:</td><td>Parlekar Pinal Narsinhbhai, Mary Grace Shajan</td></tr><tr><td>Paper Title:</td><td>Data Rate Enhancement For Cell Edge Users In A Wireless Cellular Network</td></tr></table> <p>Abstract: Users at the cell edge in a cellular network suffer from low data rate due to low SINR Cooperative transmission schemes which are used in wireless networks to improve the spectral efficiency. Cooperative transmission schemes are used in wireless networks to improve the spectral efficiency and Throughput. It is found that the throughput for cell edge users degraded because of interference from other cell. The object of this dissertation is to study the various techniques for improve the performance of cell edge users.</p> <p>The techniques to be studied are:</p> <ol style="list-style-type: none">1. Cooperative MIMO2. Simple cooperation3. Cooperation with 1-bit phase feedback. <p>The results shows that the performance of selective cooperation is better then without cooperation and with cooperation and the performance of Simple Cooperation is better then Cooperative MIMO and Cooperation with 1-bit phase feedback.</p> <p>Keywords: Spectral Efficiency, Data Rate, Cell Edge User, Capacity.</p> <p>References:</p> <ol style="list-style-type: none">1. Sendonaris, E. Erkip and B. Aazhang, "User Cooperation Diversity - Part I System Descriptiuon," IEEE Transactions on Communications, vol. 51, no. 11, pp.1927-1938, Nov 2003.2. J. N. Laneman, G. W. Wornell and D. N. C. Tse,"An efficient protocol for realizing cooperative diversity in wireless networks," in Proc. IEEE ISIT 2001, p.294, Washington, D. C., June 2001.3. A. Nosratinia, T. E. Hunter and A. Hedayat, "Cooperative Communication in Wireless Networks," IEEE Communications Magazine, pp. 74-80, Oct 2004.4. G. J. Foschini, H. Huang, K. Karakayali, R. A. Valenzuela and S. Venkatesan', "The Value of Coherent Base Station Coordination", Proceeding of 2005 CISS', The John Hopkins University, March 16-18, 2005.5. T. Tamaki, K. Seong and J. M. Cioffi,"Downlink MIMO Systems Using Cooperation among Base Stations in a Slow Fading Channel", Proceeding of IEEE International Conf. on Communications 2007, pp. 4728-4733, June 2007.6. J. G. Andrews, W. Choi and R. W. Heath Jr, "Overcoming Interference in Spatial Multiplexing MIMO Cellular Networks", IEEE Wireless Communications Magazine, vol. 14, no. 6, pp.95-104, Dec 2007.7. "CollaborativeMIMO",http://www.ieee802.org/16/tgm/contrib/C80216m-07-244r1.doc8. J. Akhtar and D. Gesbert, "Extending Orthogonal Block Codes with partial feedback", IEEE Transactions on Wireless Communications, vol.3, no. 6, pp.1959-1962, Nov 2004.9. H. Holma and A. Toskala, HSDPA/HSUPA for UMTS: High Speed Radio Access for Mobile Communications. John Wiley & Sons, 2006.10. Urban Transmission Loss Models for Mobile Radio in the 900 and 1800 MHz bands, EURO-COST 231 Std.11. "Interference Mitigation Using Precoded Multi-Cell MIMO In The Downlink", IEEE 802.16 Broadband Wireless Access Working Group Http://IEEE802.Org/16.12. "Multi-Cell MIMO Schemes For IEEE 802.16m", IEEE 802.16 Broadband Wireless Access Working Group Http://IEEE802.Org/16, IEEE C802.16m-08/632.13. H. Holma and A. Toskala, HSDPA/HSUPA for UMTS: High Speed Radio Access for Mobile Communications. John Wiley & Sons, 2006.	Authors:	Parlekar Pinal Narsinhbhai, Mary Grace Shajan	Paper Title:	Data Rate Enhancement For Cell Edge Users In A Wireless Cellular Network	32-35
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