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By IJSER Editorial Board

IJSER September issue volume 3 issue 9 has 144 papers.

Paper review

All areas of engineering and science like Computer Science, Chemistry, Physics, Biology, Medical Science, Geology, Statistics, Accounting, Social Science, Mathematics, Management and Economics are covered (the areas are not limited to the following):

Papers of significance in this issue.

Analytical Method For Calculation of Temperature of The Produced Water In Geothermal Wells presented by F.P. Codo, A. Adomou and V. Adanhounmè explains heat transmission is involved in drilling and all producing operations. This phenomenon is explained as fluids move through a wellbore, there is a transfer of heat between the fluids and the earth due to the difference between the fluids and the geothermal temperatures. H. J. Ramey developed in 1962 an approach of solution which investigated the wellbore heat transmission to provide engineering methods useful in production and injection operations. Nowadays the energy production in the case of the renewable energies particularly in the case of the geothermal energy, which has generated a considerable interest the past few years. A simple mathematical estimation is used for prediction of the temperature produced by geothermal hot water, is the refinements of the so-called Ramey-theory. The solution supposes that the heat transfer in the wellbore is steady-state, while the transfer to the earth is unsteady radial conduction. Fields and calculated results of Hungarian production wells of Zsori-4 and Bogács (4-17), are presented and analyzed to establish the appropriateness and the usefulness of the study.

Solar thermal water heating system designing using **F-chart Method is explained by paper presented by I. F. Okafor and G. Akubue**. Solar energy systems convert solar energy into useful energy. But the performance of these systems depends on weather and exhibit a nonlinear dependence. This makes it difficult to accurately analyze their performance by simply observing their response to short-term or average weather conditions. Thus this work analyzes the use of f-chart method in designing liquid solar heating systems due to its simplicity and ability to estimate the fraction of total heating load supplied by solar heating system. This method is widely used in designing both active and passive solar heating systems, especially in selecting the sizes and type of solar collectors that provide the hot water and heating loads. It designs solar water heating system for a family of six in Nsukka community using f-chart method and the annual fraction of the load supplied is 0.44, indicating that 44% of the annual load is supplied by solar energy. It also presented the design considerations for long-term performance for the solar water heating system, f-chart validation and its limitations. Keywords: Solar energy, f-chart method, water heater.

Little Mahendra, Ravi David Austin, Jaideep Mahendra, S. Senthil kumar, A. John William Felix present paper on **Relationship between Psychological Stress, Serum Cortisol, Expression of MMP-1 and Chronic Periodontitis in Male Police Personnel**. Methodology: Fifty male police personnel were selected and their Clinical parameters such

as plaque index, Sulcus Bleeding Index, Probing Pocket Depth and Clinical attachment level were recorded. Stress was measured using a stress questionnaire. Blood sample was collected and serum cortisol level was evaluated using ELISA. Expression of MMP-1 was evaluated by RT-PCR. Results: The clinical, psychological and biochemical data were statistically significant with p value < 0.001 . Conclusion: The present study showed a positive correlation between stress, serum cortisol level, expression of MMP-1 and chronic periodontitis.

Mr. Manojkumar S. Sonawane , Ms. Mayura V. Gujarathi present paper on **Multiprocessing and multithreading** that is any object or thing in computer has its own "Monitor" So at a time only one task (program, process, or thread) can enter into monitor. So point to discuss is, at the depth or by looking from monitors view Where is the Multitasking (Multiprogramming, Multiprocessing, Multithreading)???? Even though there are DUAL Core Processors. So this paper discusses how we can achieve a real Multitasking, Multiprocessing & Multithreading by creating and maintaining number of monitors.

Mrs. Ketaki S. Pathak, Ms. Pooja S. Mauskar, Mrs. Pratima Bhalekar present paper on **application of Nanotechnology in agriculture and good processing** like packaging. This briefing paper discusses the state of the art of nanotechnology R&D and products in food and nutrition. After a short explanation of what nanotechnology is, present and expected future applications of nanotechnology in agriculture and food are discussed.

Ramandeep Dhillon presents paper on **Lorandite, A thallium sulfosalt** Lorandite, $TlAs_2S_2$, that occurs with orpiment, realgar and pyrite in barite veins of Carlin, Nevada, type gold deposits. The mineral is named after Professor Lorand Eotvos, a prominent Hungarian Physicist. The crystal of lorandite is deep red in color, gives cherry red streak, and the luster is adamantine. The mineral usually occurs in small subhedral grains up to about 4 mm in length.

Arafat Mohammed Rashad Al-dhaqm, Md. Asri Nagdi Associate Prof. DR present paper on **prevention of malicious activities on RDBMS**. There are many mechanisms have been developed to detect and prevent the insider attacks called Detection of Malicious Activities in Database Systems DEMIDS. The DEMIDS consider as one of the last defenses mechanism of the database security system. There are many mechanisms that have been developed to detect and prevent the misuse activities like delete, and update data on the database systems. These mechanisms utilize auditing and profiling methods to detect and prevent the malicious activities. However these mechanisms still have problems to detect the misuse activities such as limit to detect the malicious data on authorized commands. This study will address these problems by propose a mechanism that utilizes dependency relationship among items to detect and prevent the malicious data by calculate a number of relations among data items. The evaluation parameters such as detect, false positive and false negative rate use to evaluate the accuracy of proposed mechanism.

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