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Characterizing land utilization types for ahead use of paleo-drainage delta as well as adapting land and water practices in the delta of river Nile

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Nile delta is facing problems of high population, water scarcity and sea water intrusion. Solutions can be inside and outside this delta. Delineating aquatic rice belt cultivation is required in its northern part to be protected from the sea water intrusion and for saving amounts of water. The soils in this part are heavy clay having capacity of holding water 2.6 times more than that in outside that proposed rice belt (748874.8 hectares). Westwards from this delta a virgin one of paleo- drainage in the Western Desert of Egypt is covering 6561199 hectares including Al Qattara Depression. Most of its physiographic units are profitable as olive cultivation belt, which can be associated with some grain, fodder crop and oil seed crops. The water logged pro delta (-65 to -134 below sea level) can be filled with sea water for a massive hydroelectric project creating an artificial lake. The lake can be used for producing evaporates, distilled water and fish reserving manufactories. It is a strategic solution for facing the pressure of the food requirement and for the environmental enhancement and also for well demographic distribution.

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N-body problem: The theory and application

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The history of the n-body problem: when did this problem appear? Who are the scientists and researchers helped in solutions of this problem? Examples of the n-body are: Two body problems, three body problems and four body problems. Types of solutions used are analytical solution, numerical solution, semi-analytical solutions, qualitative solutions and quantitative solutions. Types of restrictions are used to solve n-body problem. Types of systems of equations used to solve n-body problem are: Newtonian equations of motion and Hamiltonian equations. Application of n-body problem on Sun-Earth-Moon-Spacecraft is treated as a restricted fourbody problem finding liberation points as special solution. These liberation points can be used in space mission as parking orbit or space station. The effect of solar radiation in these liberation points is studied.

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