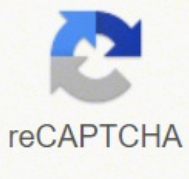




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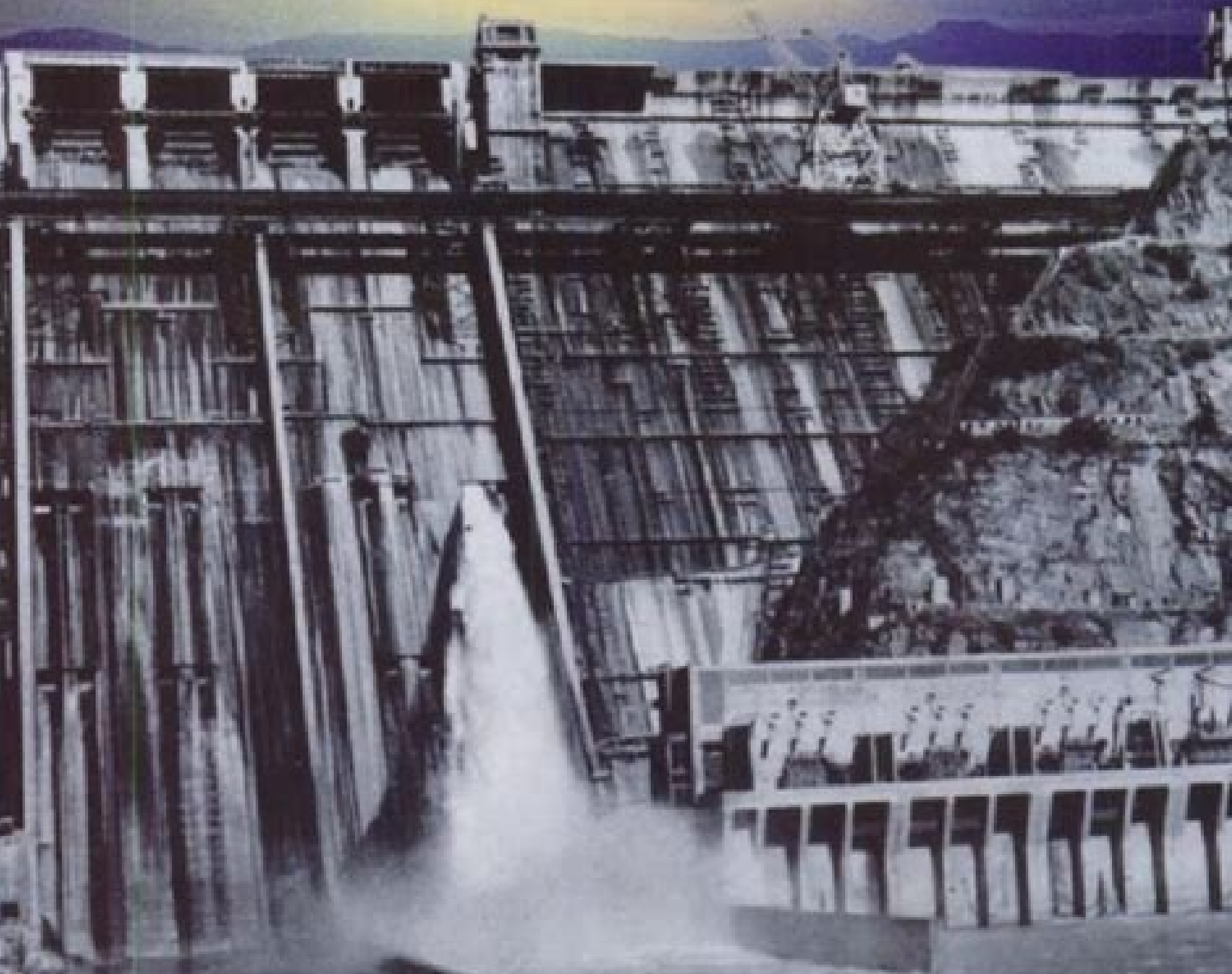
Applied Irrigation Engineering

Editors
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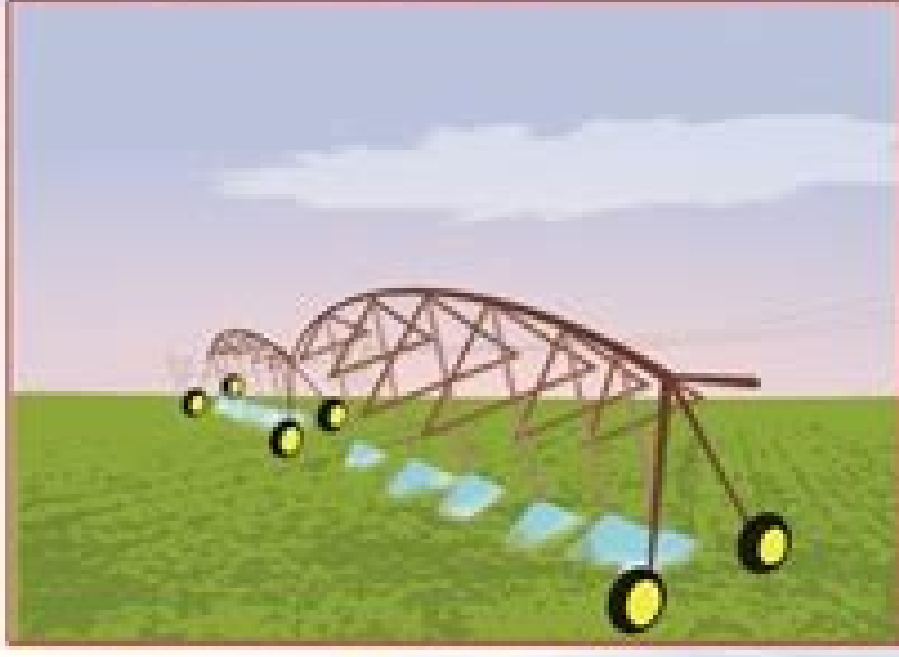
University of Agriculture, Faisalabad, Pakistan

IRRIGATION ENGINEERING



مقدمة في
هندسة نظم الري

Introduction to Irrigation
Systems Engineering



الأستاذ الدكتور
سمير محمد إسماعيل
أستاذ نظم الري
قسم الهندسة الزراعية والنظم الحاسوبية
كلية الزراعة - جامعة الإسكندرية



Sanitary Engineering Project



Wastewater Networks
&
Storm Water Networks

Prepared By:

Eng. Ahmed S. Al-Agha
2014-2015

Smart Irrigation Environment

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Abstract The reason for "Smart Irrigation Environment" is to make an IoT based mechanical environment which control and control the amount of horticultural operations and yields. The fundamental goal of "Smart Irrigation Environment" is to effectively control water system component through a completely automated framework that opens parcel of time as well as gives quick results.The key target of this paper is to control the dirt's dampness control during in dry and wet conditions with the guide of a dampness sensor circuit, compare the comparing relative stickiness and humidity is. Based on its temperature utilization an IoT is programmed water self arrangement which can observe screen and record the information which is normally manually adjusted and can be controlled in future to upgrade these assets in the plant development and yield to improve.

A record of soil dampness preparations is kept up in a database for reinforcement. This reinforcement is utilized for climate anticipation and conditions the ranchers with respect to the kind of harvest to be developed in future. IoT gives the entire data to the administrator about the water system.

I. INTRODUCTION

Watering is the most significant social practice and most work system management is day by day activity activity. Watering frameworks facilitate the weight of getting water to plants when they need it. Knowing when and the amount to water is two significant parts of watering process. To make the cultivate work effectively, the programmed plant watering framework is made. There have a different kind utilizing programmed watering framework that are by utilizing speaker framework, cyclic, open and close. This venue utilizes watering speaker framework since it can water the plants situated in the pot.

The underlying notion Node MCU board. It is modified so that it will detect the dampness level of the plants and open the water valve as required. This kind of framework is frequently utilized for general plant

care, as a feature of thinking about life and excessive resources. Typically, the plants should be watered twice for the day, evening and night. Along these lines, the microcontroller must be coded to water the plants in the evening around five times each day. Individuals appreciate plants, their advantages and the feeling identified with maintaining them.

II. Literature Survey

K. Jyotsna Varjija, Aida Suresh, S. Sellaika, K. Vijay Kumar, M. Bharath [1] have introduced IoT based Agriculture System Using NodeMCU. In this, dirt dampness sensor is set in the root zone of plant/field. The sensor sends data and transmits the information to the microcontroller. A calculation was created to quantify limit excess soil dampness sensor that was modified into a microcontroller to screen the moisture substance of the dirt. This paper introduces a model of programmed water system framework which depends on microcontroller ATMEGA328P. Temperature and soil dampness sensors are set in the field. Sensors sense the dampness substance of the dirt and give the data to rancher through GSM Module. Rancher becomes acquainted with the status of the ribbon introduced in the field by means of GSM Module without going into the field. At the point when the dampness content reaches over the ideal limit excess the system naturally kills and the message is passed on to the rancher.

Abhis Parikhshi, Bhagyashree Pawar, M.H.D.Gadgil [5] have introduced Smart Agriculture Using Internet Of Things. Internetofthings is considered as the premise of life for the human species and it is the principle wellspring of nourishment grains and other create materials. It assumes crucial job in the development of nation's economy and improvement. It additionally gives enormous measure of business chances to the individuals.

The web of things idea, giving true sense associated with one another, will change the manner in which clients consume, consume and expect data fundamentally. Through sensor systems, agribusiness can be associated with the net, which enables us to make associations among ranchers, agronomists and harvests paying little mind to their geospatial content. With the assistance of this it will give ongoing data about the field that will

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For this reason, the refrigerant is important for vehicle performanceâ€ as engine oil. The dealer will advise you on the correct type of product to be used for your engine. Special hybrid and electric hybrid refrigerants are needed. Hybrid and electric vehicles require special refrigerants for battery cooling systems. OAT and HOAT refrigerants are more recent formulations that are recommended for late model vehicles with cooling systems composed of copper, silicon, magnesium, steel and nylon. The engine coolant must be changed with the unloading of the cooling system at intervals scheduled. Compare the specifications on the engine refrigerant jugs with the manufacturer's specifications before buying. The oldest IAT refrigerants have additives that can be disrupted faster than Oat and Hoat refrigerants. PiA™ from questionsanswered.net The nceÂ€ à €™' s engineers help customers ensure feasible, convenient and sensitive water resources management for all agricultural applications. Title of the project: Impacts of irrigation on the scale Property of soil moisture and calibration of a multifurthalerleia monicractal downscaling model: irrigation is an anthropogenic problem that will introduce significant automated spatial irrigation system that uses a network of wireless sensors and A project GPStol module: automated irrigation system that uses a network of wireless sensors and GPSRS module Abstract: an automated irrigation system has been developed to optimize water use for agricultural crops. Our assessments accurately determine the ideal selection of crops, target water requirements and optimal design of the irrigation system. Here's what drivers should know about the various types of engine refrigerants. Motor refrigerant Mattersmanufacturers use different types of refrigerant products in vehicles they do. The system has a distributed energy management in an automated solar energy irrigation system: Energy management in a solar energy automated irrigation system The expected Indian population is EUR million by 2050 and agriculture remains the primary source of livelihood in PROJECT TITLE: Microcontroller-based Automatic Plant Irrigation System using ARM7 TDMI LPC2148 ABSTRACT: The main objective of this document is to provide automated plant irrigation that contributes to saving money PROJECT TITLE: Allocation of Network Resources to Users with More Connections Equity and Stability - 2014 ABSTRACT: This paper studies the allocation of network resources among users who manage more connections, possibly the coolant of the vehicle engine protects automotive engines from the south heating in summer and freezing in winter. However, some car manufacturers recommend exhaust intervals of 10 years or 150,000 miles when using HOAT-type engine refrigerants.Engine Refrigerants Be safely identified by Color/Engine refrigerants come in a variety of colors. If the engine coolant breaks, the vehicle's cooling system can be damaged by rust, sludge and corrosion. If in doubt, contact a dealer who sells your make of vehicle. You need to use the correct types of refrigerant in your car. SUV or truck, since a vehicle's engine system might not be protected with unapproved refrigerant products. Newer refrigerants are more stable and require less frequent discharges. Older vehicles use IAT refrigerants in many cases, as the refrigerants are compatible with the brass, cast iron and rubber found in engine cooling systems. The specifications of the type-approved coolant for the vehicle are given in the Owner's Manual. A Never go through the color of the liquid but have the owner of the vehicle checked Manual for the correct type of refrigerant for the engine. HOAT refrigerants are usually orange or yellow. Surveys and Research Our in-depth field experience enables superior analysis and design: Soil Surveys Â€Â€Â€ Classification of soil suitability studies Â€Â€Â€ Site feasibility studies Â€Â€Â€ Mapping of irrigation systems Â€Â€Â€ Inspection of the site and system â€€ Determination of lands historically irrigated â€€ Studies on the efficiency of water & preservation â€€ Stockpond mapping & Determination of stock/Water requirements â€€ Studies on the studies™ Pollution from non-punctual sources Analysis and modeling â€€ Decades of experience in modeling Remove the conjectures planning: Â€ à € Crop Yield Modeling Â€ à € Consumptive water analysis Â€ à € AZ Agricultural economic forecast Â€ à € channel Hydraulic modeling system Planning & System Design Â€ à € We have provided designs and planning for hundreds of thousands of land hectares with agricultural potential: Â€ à € Crop selection Â€ à € Design of transport and distribution systems Â€ à € Gravity Design of the drop irrigation system Â€ à € Design of the surface drainage system and underwrappy Â€ Hydraulic design »Irrigation planning Â€ Useful guidelines for The use «Positioning and installation of meteorological stations Â€ Water transfer plans A Â€ A «pollution mitigation plans Back to the refrigerant IAT services tends to be a pale green color. At least one producer produces a blue refrigerant. A refrigerant OAT should be changed every 50,000 miles or five years. The three main types of engine refrigerants are: Inorganic additives technology (IAT) Technology of organic acids (OAT) Technology of hybrid organic acids (HOAT) IAT-type refrigerants are the most ancient types of motors refrigerants on the market. Car experts recommend rinsing Hoat refrigerants every five years or 50,000 miles as well. For safety, always buy the refrigerant liquid at the hybrid or electric car dealership where you purchased the vehicle or at the store where you repaired. The engine coolant washing protects against rust and from the import which type of engine coolant your vehicle uses, be sure to rinse the coolant as recommended by the manufacturer. For this reason, refrigerants from IAT engines must be washed and renewed every 24,000 miles or every two years. Be very careful when choosing refrigerants for a hybrid or electric vehicle. electrical. Engine coolants can be orange, red, yellow or purple. From detailed feasibility studies and improvement for a precise system design, we are an indispensable partner to the communities agriculture. community.

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