Automatic Street Light System Project Report

Project Title:
Automatic Street Light System (Without Arduino)

Objective:
To design and construct an automatic street light system that activates in low light conditions without using a microcontroller. This project utilizes semiconductor components to detect ambient light levels and automatically switch on/off street lights.

Introduction
Automatic street lights are energy-efficient lighting systems designed to reduce manual control. These systems use sensors to automatically control the street lights based on ambient light conditions. By turning lights on at dusk and off at dawn, they save energy and reduce costs. This project explores a simple, reliable method using semiconductor physics to automate street lighting without a microcontroller, focusing on the behavior of a Light Dependent Resistor (LDR) and a transistor circuit.

Principle of Operation
The circuit utilizes an LDR and a transistor-based switching circuit. The resistance of the LDR decreases with an increase in light intensity, allowing it to act as a light sensor. In the circuit, when it gets dark, the LDR resistance increases, and a transistor is triggered, turning on the light. As dawn approaches and ambient light increases, the LDR's resistance decreases, turning off the transistor and thereby turning off the light.

Components Used

Light Dependent Resistor (LDR)
Senses ambient light. Resistance increases in darkness and decreases in light, which helps control the flow of current in the circuit. The photoconductive effect of semiconductors is utilized in LDR, where light energy causes changes in electrical resistance.

Transistor (NPN, e.g., BC547 or BC548)
Acts as an electronic switch. The transistor is in an 'off' state when light is detected by the LDR and in an 'on' state in the dark, allowing current to pass to the light source. The transistor's properties enable it to act as a switch, amplifying current from the base to the collector-emitter pathway when triggered by LDR resistance changes.

Relay (5V or 12V, depending on the circuit)
Switches the main power to the street light. The relay is driven by the small current in the transistor circuit, which switches the larger current required by the light source.

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Engineering Education for the 21st Century Dan Budny,1995 **Annual Report** United States. Light-House Board,1902 *Federal Register* ,1974 Scientific and Technical Aerospace Reports ,1976 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database **Electric Light and Power** ,1943 **Illuminating Engineering** ,1957 **The Coast Artillery Journal** ,1924 The Journal of Gas Lighting, Water Supply & Sanitary Improvement ,1902 Engineering and Cement World ,1923 **Engineering World** ,1923 *Bulletin - National Electric Light Association* National Electric Light Association,1929 *Building and Engineering News* ,1928 *Engineering Record* ,1916 Electrical Review ,1919 **Foreign Commerce Weekly** ,1947 **Industrial Engineering** George Worthington,1919 Municipal Journal and Public Works ,1899 **City Government** ,1899 Congressional Record United States. Congress,1965 The Congressional Record is the official record of the proceedings and debates of the United States Congress It is published daily when Congress is in session The Congressional Record began publication in 1873 Debates for sessions prior to 1873 are recorded in The Debates and Proceedings in the Congress of the United States 1789 1824 the Register of Debates in Congress 1824 1837 and the Congressional Globe 1833 1873 Farm Electrification Leaflet ,1959

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