Electronic Products Handbook With Circuit Diagrams

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Electronics has a very interesting history as multi pronged discovers led to developments in very different fields with diverse applications. However the very first application of electronics was in the field of communication. Since then the science of electronics has undergone paradigm shifts. Today the electronic market sports a wide range of products from the radio, television, recorder, transistor, watches, video to the computer. It has been a long-long journey from the diodes of yester years to the submicron integrated circuits of today. Demand for electronics product during Tenth Five year Plan estimated to be increased by 15 percent per annum. This is projected as the most realistic scenario assuming existing policy framework and infrastructure.

Up-counters
Down-counters
Timers
Real-time timer
Program commands
ser (series contacts)
par (parallel contacts)
ope (output energise)
opl (output latch)
opu (output unlatch)
tmr (timer)
ctu (up-counter)
ctd (down-counter)
rto (real-time output)
Example
Conclusion

10. DTMF REMOTE CONTROL SYSTEM
Overview
Remote unit circuit
Master unit
Basic telephone line
Parts List
DTMF signaling
Inside MT8870
FM receiver
Integrated working of master unit
Telephone line interface circuit
Tone decoder
Displaying the dialed digit
Appliance on/off control unit
Tone delay circuit
The relay driver circuit
Power supply
Assembly and testing
Conclusion
Further enhancements

11. A VERSATILE PROGRAMMABLE TIMER
Block diagram
The circuit
Parts List
Operation
12. EPROM-CONTROLLED LIGHTING EFFECT GENERATOR
Parts List

13. DIGITAL FLOW-METER
Description
The sensor section for conducting liquids
Parts List
The sensor section for non-conducting liquids
The logic control section

Brightness or Luminance
Flux of light method
Beam intensity
Reflector theory
Light formation
The Importance of Accurate Focusing and Aiming
Focusing
Aiming of headlights
Problem of headlight dazzle - Department of Transport Regulations
Some characteristics of the eye
Dazzle - Its Causes and Prevention
Anti-dazzle devices
Bifocal or double-filament bulbs
Setting of headlamps
Headlight Construction
The sealed beam unit
The European headlamp
The two-bulb two-reflector construction
Four-headlamp system
Automatic headlamp dipping and leveling
Auxiliary Lamps
Side lamps
Rear lamps
Trailer lighting
Boot light
Interior Lighting
Fluorescent Lighting
Ancillary Equipment
Application to Transport Vehicles
Signalling System
Direction indicators
Flashing light direction indicators hazard warning systems
The Lucas hot wire type flasher unit
The Lucas vane type flasher unit (Model 8FL)
Performance
Bulb failure indication
Operation
Installation
The Simms transistorised flasher unit
Special Purpose Beacons
Lighting and Signalling Regulations - British Standards
Obligatory rear lamps and reflectors
Regulations governing reversing lamps on vehicles

DIRECTORY SECTION

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