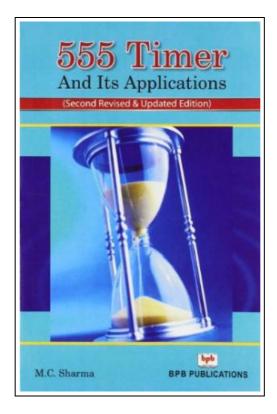
The 555 Timer Applications Sourcebook with Experiments



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(Mr. Demario Trantow)

THE 555 TIMER APPLICATIONS SOURCEBOOK WITH EXPERIMENTS



BPB Publications 0. Softcover. Book Condition: New. 5th or later edition. This Book is about the 555 Timer. It will show you how to use it by itself, and with other solid-state devices. You will: 1. Look at the timer`s Organization and Electrical characteristics 2. Learn how to connect the 555 Timer as a monostable multivibrator or one-shot pulser 3. Learn uses of the timer to form regulated power supplies, dc-dc converters, and switching regulators 4. Discover specialized applications including electronic games, telephone, Music and automotive circuits 5. Conduct 17 simple Experiments that will allow you to gain a basic practical Knowledge in using the 555 timer Contents Chap. 1: INTRODUCTION TO THE 555 TIMER Chap. 2: MONOSTABLE OPERATION Operation? Triggered Monostable? Negative-Recovery Circuit? Compensating for Capacitance Variations? Schmitt Triggers? laverting Bistable Buffer?-Things to Remember Chap. 3: ASTABLE OPERATION Operation? The Duty Cycle? Adjusting the Frequency and Duty Cycle? A Crystal-Controlled Astable? Minimizing Differences in the Monostable and Astable Periods Chap. 4: POWER Supply CIRCUITS Positive DC-DC Converters? Negative DC-DC Converters?A Dual-Polarity Converter?Battery Charger/Monitor Chap. 5: MEASUREMENTS AND CONTROL Go/No Go Tester?Audible Continuity Tester?Digital Logic Probes ?Multi wire Cable Tester?Oscilloscope Display?Analog Frequency Meters and Tachometers?Measurement of Capacitance?555-RLC Maxwell Bridge?Waveform Generators?Temperature Measurement and Control?Additional Control Circuits Chap. 6: PLAYING Games WITH THE 555 TIMER Coin Flip Decision Maker?Casino Games?Personal Timing Tester Chap. 7: CIRCUITS FOR THE Automobile AND HOME Windshield Wiper System? Automobile Idiot Light Alarm? Voltage Regulator? Electronic Ignition? Tachometers and Speed? Automobile Burglar Alarm? Automatic Headlight Turn-Off?Toxic Gas Alarm?Monitoring the Weather?Electric Eyes Chap. 8: THE 555 AND MA BELL Ringers?Tones Chap. 9 :HOBBIES Photography?Music?Ham and CB Radio Chap. 10: EXPERIMENTING WITH THE 555 TIMER Introduction to the Experiments?Experiments Printed Pages: 218.



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