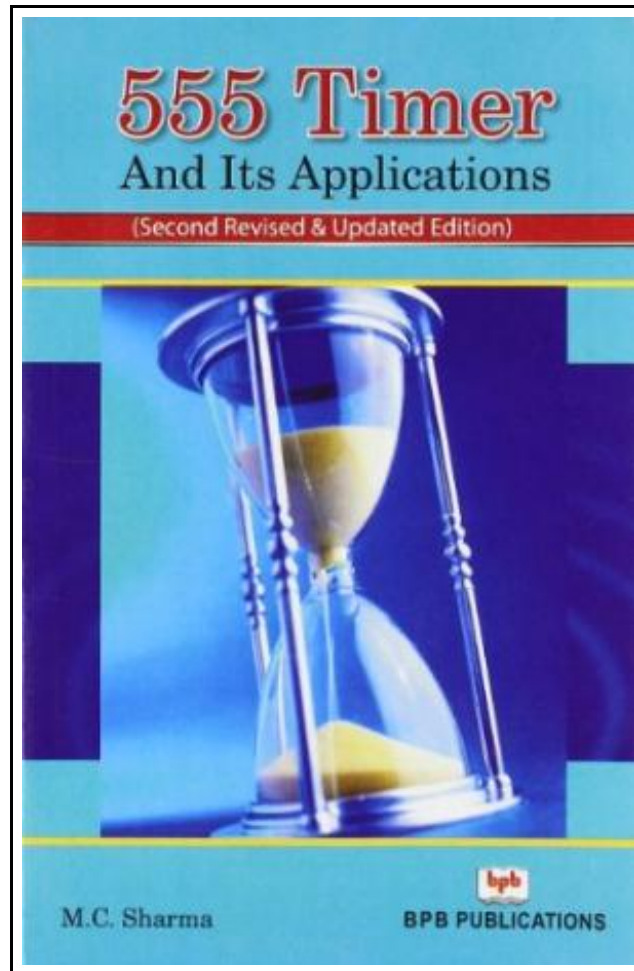


The 555 Timer Applications Sourcebook with Experiments



Filesize: 5.65 MB

Reviews

Extensive manual! Its such a great read. It really is loaded with knowledge and wisdom You wont really feel monotony at at any time of your time (that's what catalogs are for regarding if you ask me).

(Myrl Hintz)

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?lverting 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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