Chapter 1: Electronics

- > introduction
- > History of electronics
- > IC technologies

Chapter 2: Building Circuits

- ➤ What Is A Breadboard?
- ➤ How to Connect Components and Wire
- ➤ Introduction to Schematic Diagrams
- > The Schematic Symbols

Chapter 3: electricals

- Voltage, Current and Resistance
- Series and Parallel Circuits
- Motors and generator
- > Transformer
- > instrumentation

Chapter 4: analog electronics

- Passive components
- > RLC circuit
- Circuit analysis
- Active components
- Rectifiers
- > filters
- Transducer
- > Thyristers
- > amplifiers
- ➤ The Integrated Circuit
- ➤ What is a Datasheet?

Chapter 5: digital electronics

- Logic-gates
- > Flip-flop
- ➤ Minimization techniques
- > Encoder and decoder
- > ADC
- > DAC

Chapter 6: IC's and communication system

- > Programmable IC'c
- ➤ Non-programmable IC's
- Wired communication
- ➤ Wireless communication

Chapter 7: How to Solder

- ➤ The Soldering Iron
- Soldering Step-by-Step
- De-soldering
- Boards for Soldering

Chapter 8: projects