

Chapter I

Semiconductor Physics and Rectifiers

1.1 Introduction

The branch of engineering which deals with current conduction through a vacuum or gas or semiconductor is known as electronics. Electronics essentially deals with electronics devices and their utilization, an electronic device is that in which the current flows through a vacuum or gas or semiconductor. This chapter will cover the physics behind the operation of semiconductor devices and show how these principles are applied in several different types of semiconductor devices.

1.2 History of Electronics

In 1904 scientist J.A. Fleming invented Vacuum tube that allows the currents to flow through it in only one direction this tube is known as "Fleming valve" or "Vacuum Tube" and which can rectify the signal. Then in 1907 Lee De Forest developed an amplifying device named vacuum Triode.

The Solid State Electronics began after the invention of the transistor; it was invented at 1948 by John Bardeen at Bells Laboratory in America. And then subsequently the solid state devices like FET, BJT are developed. These devices are having wide applications in the field of electronics. In 1959 Noyce gave idea for developing multiple components on a single chip that can reduce the size of the electronic devices. This monolithic circuit is named as Integrated Circuit (IC). The Small Scale Integration (SSI) technique developed in 1961, the Middle Scale Integration (MSI) in 1966, Large Scale Integration (LSI) in 1970 and the Very Large Scale Integration technique (VLSI) developed in 1980.

1.3 Electronics Components

For the formation of electronic devices it uses various components. The components are characterized as given below.

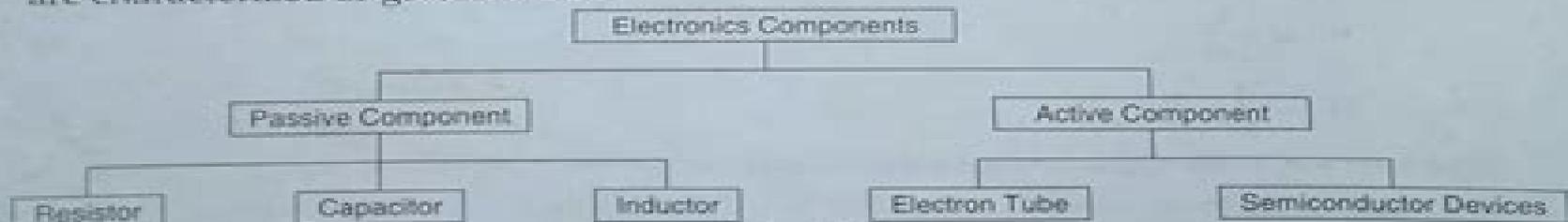


Fig. 1.1

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John Krol,Julie Winklepleck



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