

Preface

Paradigm Change...

The way of living of humans has changed with every revolution man has experienced in the past. Agricultural revolution resulted in producing food to human beings in an organized manner compared to earlier methods. Industrial revolution resulted in using machinery for the benefit of humans. For example aero-plane has caused a human being to link with another human being in a far away place within a matter of few hours. With the invention of the printing machine in the 15th century the printing revolution took place which resulted in human beings sharing knowledge by printing or writing. Last millennium we experienced the commencement of Communication revolution.

What is communication revolution? Communication revolution means that any human being should be able to communicate with another human being face to face within matter of seconds wherever he/she lives in the globe. In enhances further, that means any person is able to get any volume of information within a matter of a second independent of the distance. This means a person need not write a letter or wire a telegram as it is at present, only he will speak to the computer and the information is transferred to any place in the world along with pictures and the information including pictures will be read by the recipient using a computer. We are experiencing these revolutions at present. In order to understand how these revolutions could be achieved it is important to understand the basic principles that govern the transportation of information from one location to another, namely Pulse Code Modulation (PCM).

Pulse Code Modulation is a technique used to achieve Digital Transmission to be applied for Voice Communication. In this book an attempt is made to explain the capital PCM in a reader friendly way.

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