Abstract

In the era of digital communication, the information sharing is rapidly increased. All the data which being sent or received are vulnerable to many active and passive attacks. Therefore, secure the data during communication is the most important concern. Cryptography performs an essential role to secure the communication in network and it comes with an amazing solution to supply the needed protection against the intruders of data. Over a considerable time, the techniques of data encryption took a huge leap from very easy methods to very difficult mathematical calculations in an effort to generate a strong security for the communication. However still along with its difficulty, the algorithms of cryptographic are prone to many attacks. this paper is explains many techniques of symmetric key encryption, its comparison and their vulnerabilities to attacks.
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**Index Terms**

Computer Science  
Security

**Keywords**

Cryptographic, cryptographic goals, Classical cryptographic, modern cryptographic