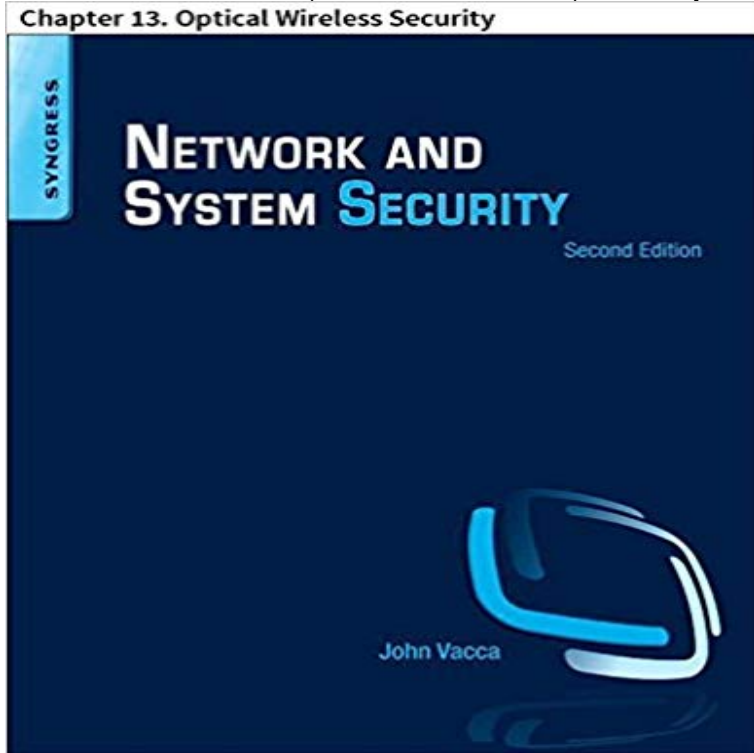


Network and System Security: Chapter 13. Optical Wireless Security



Optical wireless systems provide a high degree of physical security if only because the signals are difficult to intercept. They typically take place high above ground. This, in and of itself, helps protect it from tampering and intrusion. Furthermore, optical wireless networking transmissions occur on the physical, or layer 1, level. Optical and copper cables are far more vulnerable to unauthorized access. The level of difficulty of interception of optical wireless signals that using narrow beam technology makes this form of network communication the most appealing choice for establishing communications between remote locations. This chapter focuses on free space optics (FSO) and the security that has been developed to protect its transmission, and presents an overview of the basic technology. Security of communications is thought of primarily as having to do with the security of the data itself. Of secondary, yet no less important, interest is the physical security. Tapping into communication links that traverse public space is very difficult to detect, and cabling and fiber are very vulnerable once they leave the building and enter basements, attics, tunnels, and other untended locations. The topic of optical wireless security is one of physical security. On the physical layer, it is one of the most secure forms of communication. On a higher level, at the protocol level, technologies such as AES128 or 256 encryption provide excellent security and can be implemented with optical systems in the same manner as any other system, there are no special considerations.

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