

## Modern Wireless Communications Systems

Since the mid 1990's, the cellular communications industry has witnessed explosive growth. Wireless communications networks have become much more pervasive than anyone could have imagined when the cellular concept was first developed in the 1960's and 1970s. As shown in Figure 2.1, the worldwide cellular and personal communication subscriber base surpassed 600 million users in late 2001, and the number of individual subscribers is projected to reach 2 billion (about 30% of the world's population) by the end of 2006! Indeed, most countries throughout the world continue to experience cellular subscription increases of 40% or more per year. The widespread adoption of wireless communications was accelerated in the mid 1990's, when governments throughout the world provided increased competition and new radio spectrum licenses for personal communications services (PCS) in the 1800–2000 MHz frequency bands.

The rapid worldwide growth in cellular telephone subscribers has demonstrated conclusively that wireless communications is a robust, viable transport mechanism. The widespread success of cellular has led to the development of newer wireless systems and standards for many other types of telecommunication traffic besides mobile voice telephone calls.

For example, next generation cellular networks are being designed to facilitate high speed data communications traffic in addition to voice calls. New standards and technologies are being implemented to allow wireless networks to replace fiber optic or copper lines between fixed points several kilometers apart (*fixed wireless access*). Similarly, wireless networks have been increasingly used as a replacement for wires within homes, buildings, and office settings through the deployment of *wireless local area networks (WLANs)*. The evolving *Bluetooth* modern standard promises to replace troublesome appliance communication cords with invisible wireless connections within a person's personal workspace.

Used primarily within buildings, WLANs and Bluetooth use low power levels and generally do not require a license for spectrum use. These license-free networks provide an interesting

# Chapter 2 Modern Wireless Communication Systems

## Snu

**Huseyin Arslan**



## **Chapter 2 Modern Wireless Communication Systems Snu:**

## **Chapter 2 Modern Wireless Communication Systems Snu** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Chapter 2 Modern Wireless Communication Systems Snu**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence.

Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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