

Chapter 2

2.1 Persistent storage, twisted pairs, Coaxial cable, Power lines, Fiber optics, Comparison of fiber optics with copper wire

2.2: Electromagnetic spectrum, Frequency hopping spread spectrum, direct sequence spread spectrum

2.3: Radio transmission, Light transmission

2.4: Bandwidth, Baseband transmission, Passband transmission, FDM, TDM, CDM, WDM

2.5 Structure of the telephone system, Telephone modem, DSL, FTTX, Circuit switching, packet switching

2.6: Cellular network concept, 1G, 2G, 3G, 4G, 5G

2.7: Broadband Internet access over cable, Docsis

2.8: GEO, MEO, LEO