

# **Solution Manual for Mobile Communications 2<sup>nd</sup> ed.**

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## **1. Introduction**

- 1.1 Good sources for subscriber numbers and other statistics are, e.g., [www.gsmworld.com](http://www.gsmworld.com), [www.3gpp.org](http://www.3gpp.org), [www.3gpp2.org](http://www.3gpp2.org), [www.emc-database.com](http://www.emc-database.com), [www.3g.co.uk](http://www.3g.co.uk), [www.regtp.de](http://www.regtp.de) ...
- 1.2 Today's GSM operators add the new 3G air interfaces of UMTS to their existing GSM/GPRS infrastructure networks. Current GSM/GPRS networks already offer packet and circuit switched data transmission following the Release 99 of UMTS. The operators have to install new radio access networks, i.e., antennas, radio network controller etc. as described in chapter 4. The situation is similar for operators using cdmaOne (IS-95) technology. However, these operators go for cdma2000 as this system allows them to reuse their already existing infrastructure. Thus, based on the separation of the mobile phone systems into (very roughly) CDMA and GSM operators will lead to two different major 3G systems, cdma2000 and UMTS (and their future releases). Right now, it does not seem that there is a place for a third 3G system. Current TDMA operators might move to EDGE enhanced systems or join the UMTS system. However, it is still open what will happen in China – the Chinese system TD-SCDMA was pushed by the government, but networks and devices are still missing. Currently, the majority of Chinese subscribers use GSM, some operators offer CDMA.

## **2. Wireless Transmission**

- 2.1 Check also the WRCs that try to harmonize global frequency plans.

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**Raffaela Di Napoli**



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