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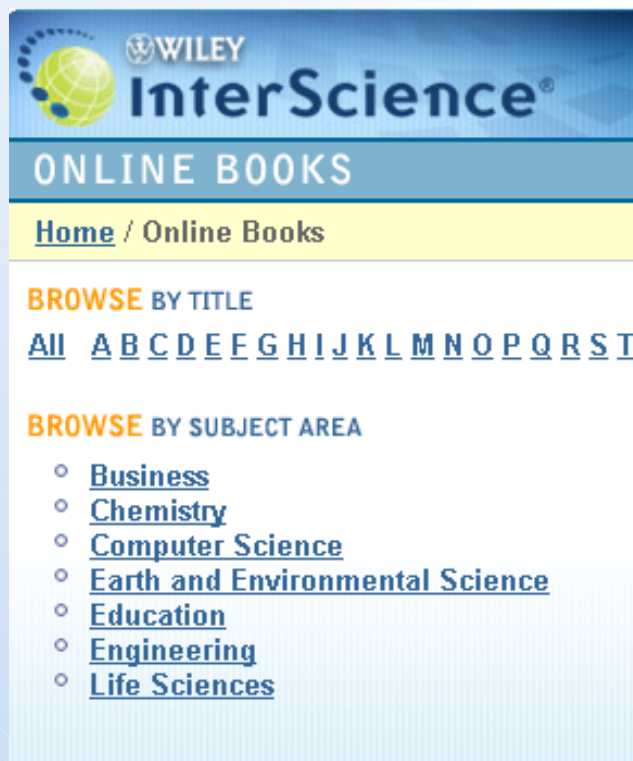
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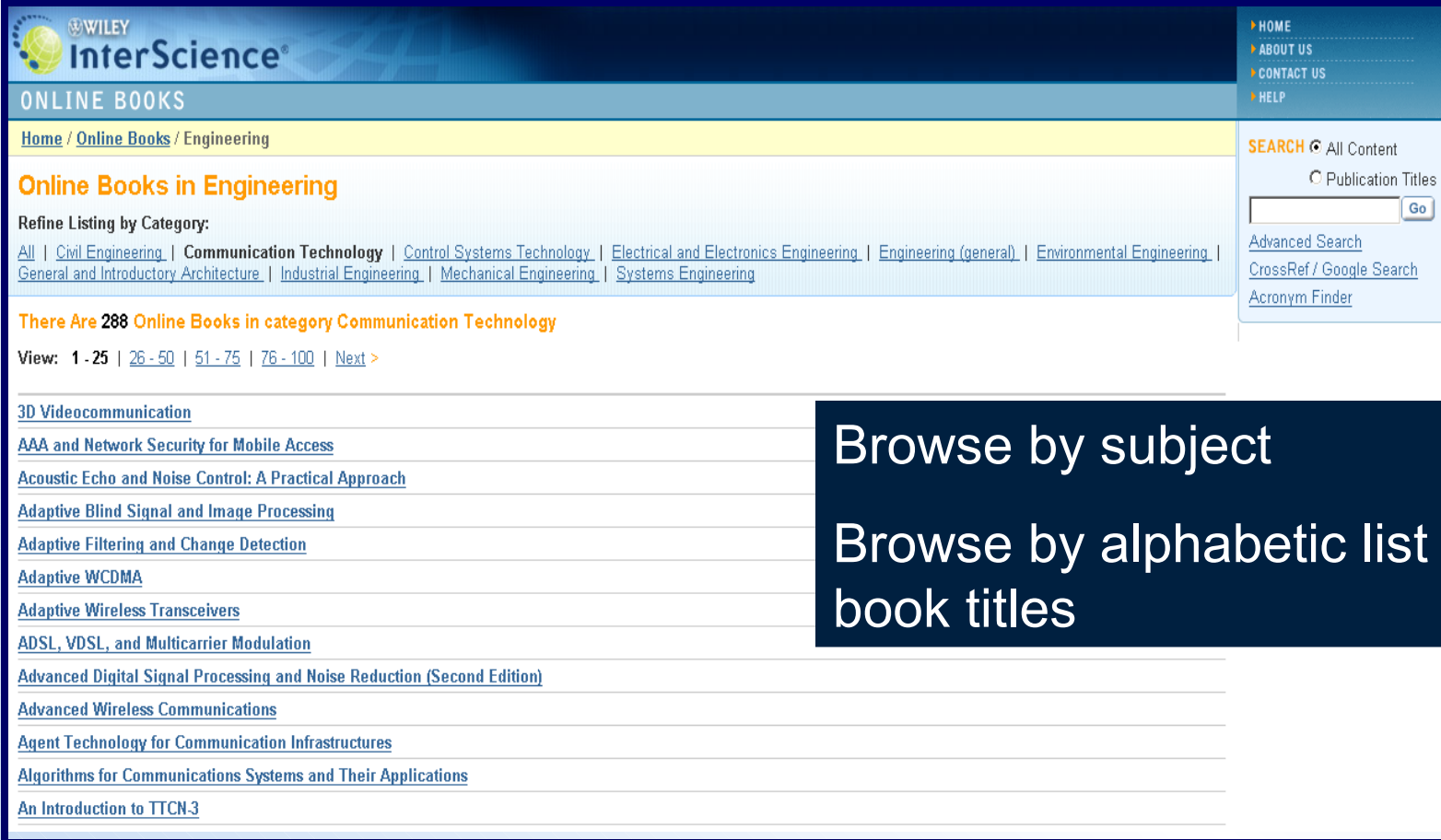


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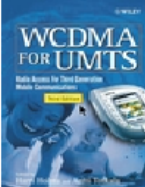
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Chapter Authors: Harri Holma, Antti Toskala, Ukko Lappalainen

**Summary**

- WCDMA in Third Generation Systems
- Air Interfaces and Spectrum Allocations for Third Generation Systems
- Schedule for Third Generation Systems
- Differences between WCDMA and Second Generation Air Interfaces
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Region	Band (MHz)	System
EUROPE	1800-1900	GSM1800 Downlink
	1875-1900	DECT
	1900-1920	IMT-2000 TDD
	1920-1980	IMT-2000 Uplink
JAPAN	1900-1920	PHS
	1920-1980	IMT-2000 Uplink
	2110-2170	IMT-2000 Downlink
KOREA	1850-1910	IS-95 Downlink
	1920-1980	IMT-2000 Uplink
USA	1850-1910	PCS/Uplink
	1920-1980	PCS/Downlink
	2110-2170	IMT-2000 Downlink

Figure 1.2. 2 GHz band spectrum allocation in Europe, Japan, Korea and USA (MSS = mobile satellite spectrum)

The spectrum allocation in Europe, Japan, Korea and the USA is shown in Figure 1.2 and in Table 1.1. In Europe and in most of Asia the IMT-2000 (or WARC-92) bands of  $2 \times 60$  MHz (1920–1980 MHz plus 2110–2170 MHz) will be available for WCDMA FDD. The availability of the TDD spectrum varies: in Europe it is expected that 25 MHz will be available for licensed TDD use in the 1900–1920 MHz and 2020–2025 MHz bands. The rest of the unpaired spectrum is expected to be used for unlicensed TDD applications (SPA: Self Provided Applications) in the 2010–2020 MHz band. FDD systems use different frequency bands for uplink and for downlink, separated by the duplex distance, while TDD systems utilise the same frequency for both uplink and downlink.

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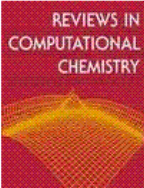


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