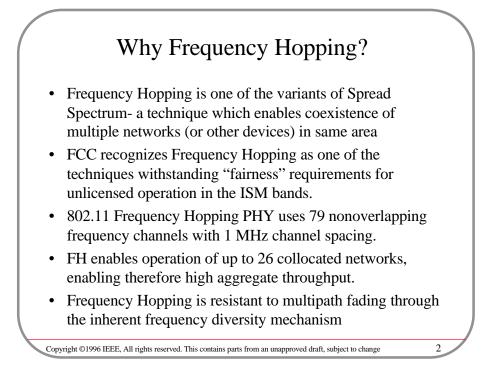
Frequency Hopping Spread Spectrum PHY of the 802.11 Wireless LAN Standard

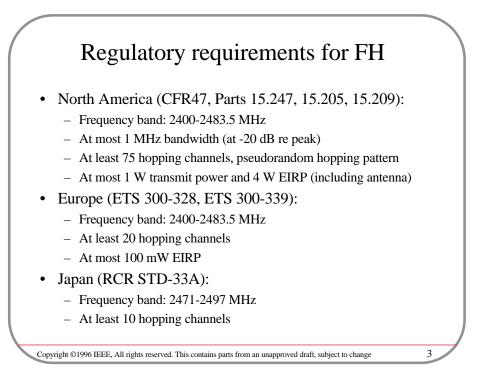
Presentation to IEEE 802 March 11, 1996

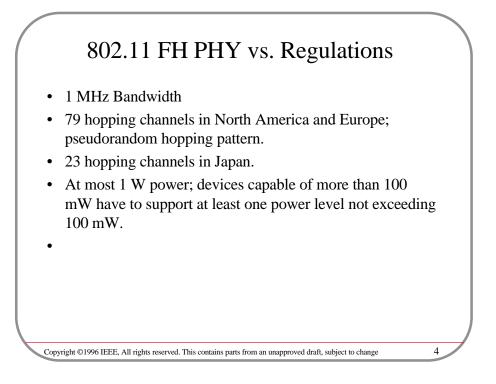
> Naftali Chayat BreezeCom

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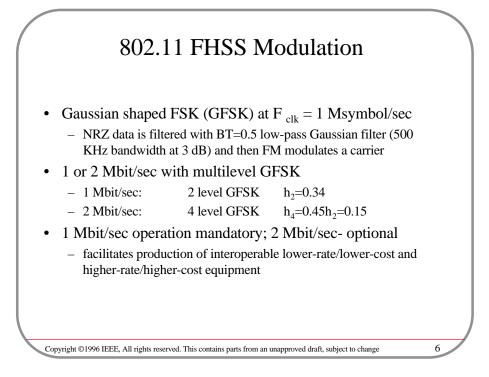


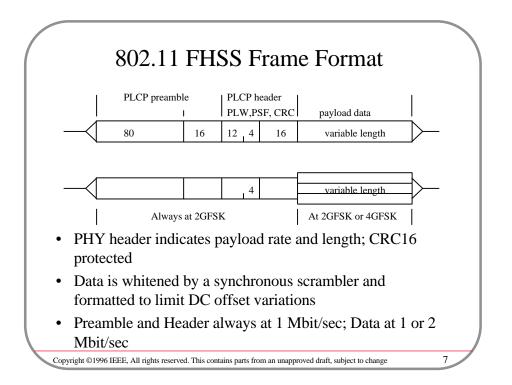


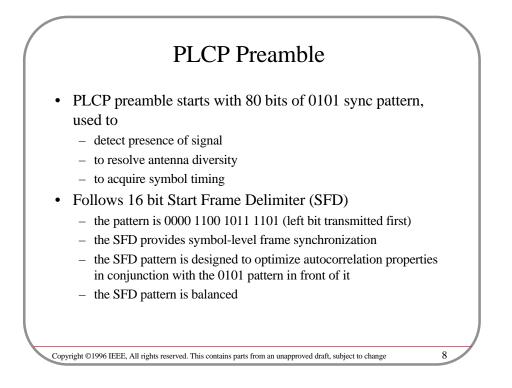
802.11 FHSS Modulation Objectives

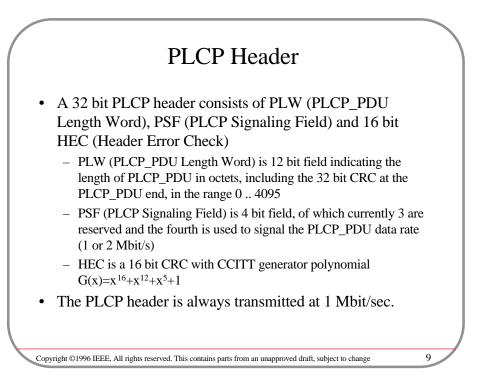
- Achieving at least 1 Mbit/sec rate
- Familiar, field proven, low cost technology FSK
 - Constant Envelope- Saturated Amplifiers
 - Limiter-Discriminator detection
- Multichannel operation -transmit signal shaping to reduce adjacent channel interference
- Multiple rates medium use optimization by taking advantage of short-range/good-propagation scenarios to increase rate

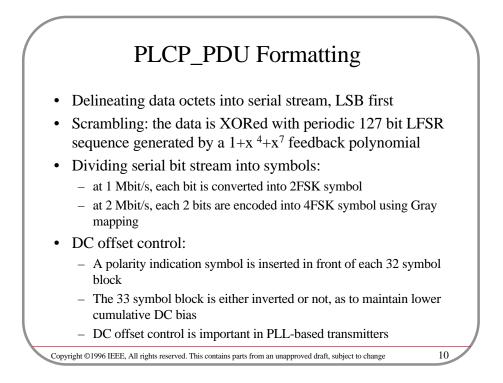
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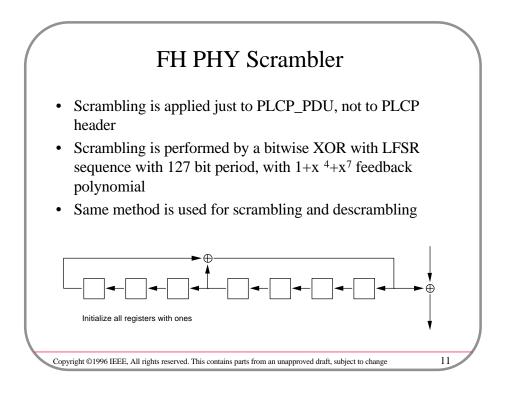


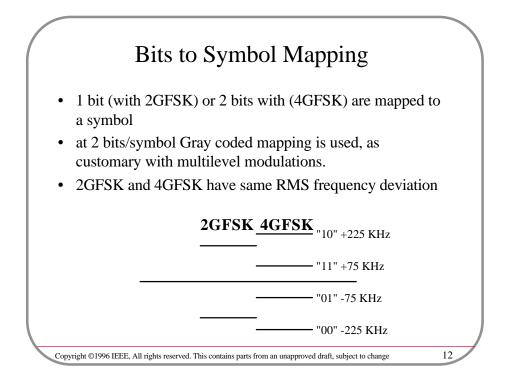


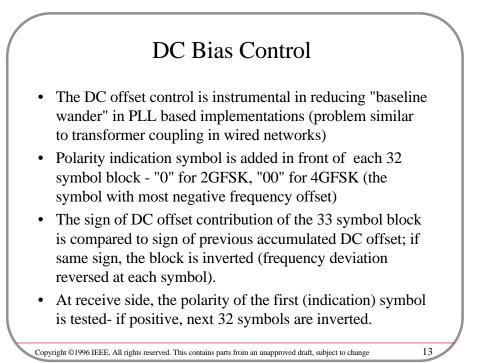


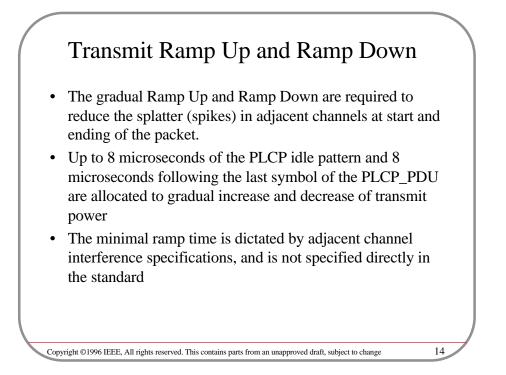


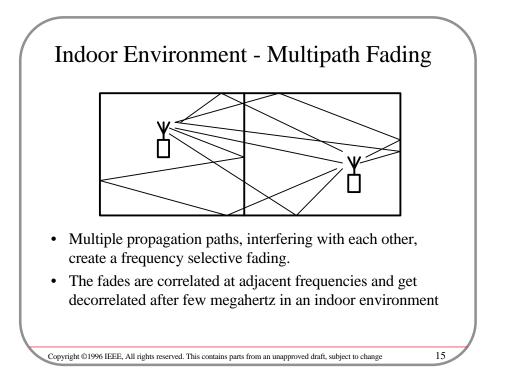


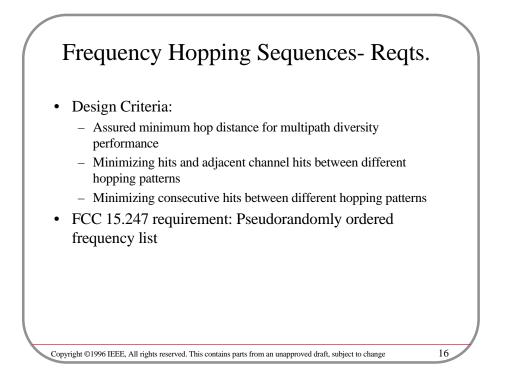


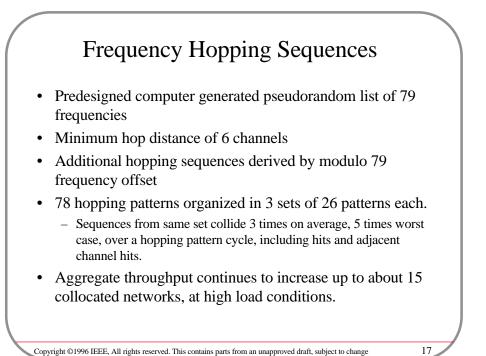


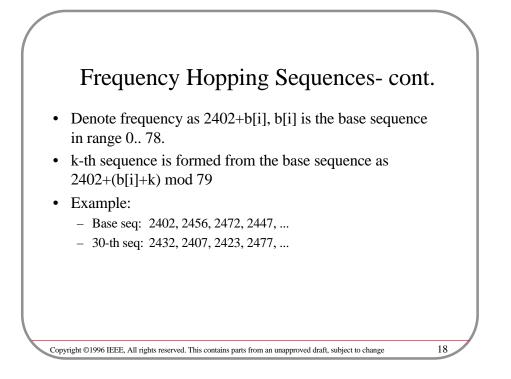


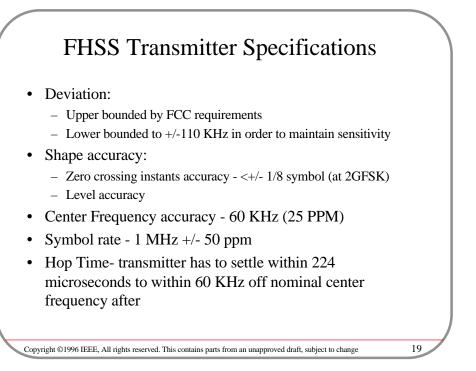












Receiver Perform	nance Spe	ecifications
<u>Parameter</u>	<u>1 Mb/s</u>	<u>2 Mb/s</u>
Sensitivity	-80 dBm	-75 dBm
Desensitization		
@ 2 Mhz offset	30 dB	40 dB
@ 3 Mhz or more	20 dB	30 dB
Intermodulation Protection	30 dB	25 dB
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