

















SYBEX	<b>WILEY</b>
Amplitude	
<ul> <li>Strength or power of the wave</li> </ul>	
<ul> <li>Defined as the maximum displacement continuous wave</li> </ul>	nt of a
<ul> <li>RF amplitude corresponds to the elect of the wave</li> </ul>	trical field
<ul> <li>Transmit amplitude = initial amplitude leaves the radio transmitter</li> </ul>	that
<ul> <li>Receive amplitude = received signal s</li> </ul>	trength
<ul> <li>Typical 802.11 transmit power (indoor – 1 mW to 100 mW</li> </ul>	devices)
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<ul> <li>Wave Propagation</li> <li>Waves move away from the antenna</li> <li>As the wave moves away from the antenit will broaden or spread</li> <li>Wave propagation can be affected by: <ul> <li>Absorption</li> <li>Reflection</li> <li>Scattering</li> <li>Refraction</li> </ul> </li> </ul>	<b>WILEY</b>
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<ul> <li>Wave propagation can be affected by:</li> <li>Absorption - Reflection</li> <li>Scattering - Refraction</li> </ul>	enna,
<ul> <li>Diffraction</li> <li>Free space path</li> <li>Multiplath</li> <li>Loss (attenuation</li> <li>Gain (amplification)</li> </ul>	n)







SYBEX	<b>WILEY</b>
Refraction	
<ul> <li>The bending of an RF signal as it pas through a medium with a different de</li> <li>Most commonly occurs due to atmos</li> </ul>	sses nsity pheric
<ul> <li>Conditions</li> <li>Three most common causes</li> <li>Water vapor</li> </ul>	
<ul> <li>Changes in air temperature</li> <li>Changes in air pressure</li> </ul>	
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SYBEX	<b>WILEY</b>
Multipath	
<ul> <li>When two or more paths of a signal a a receiving antenna at the same time within nanoseconds of each other</li> <li>Caused by</li> </ul>	arrive at e or
– Reflection - Scattering – Refraction - Diffraction	
<ul> <li>Delay Spread = Time differential betw multipath signals</li> </ul>	ween
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