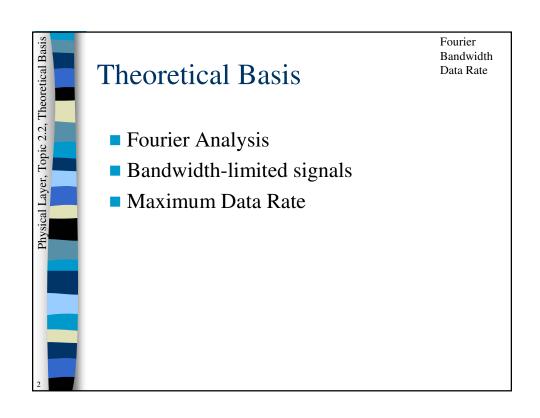
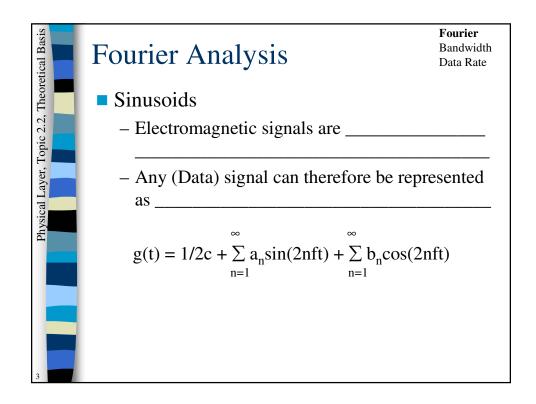
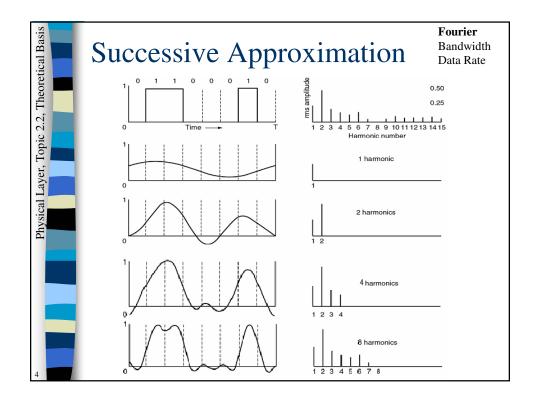
## Previously OSI – Open Systems Interconnection – Refence Model Specification TCP/IP – Protocol Specification Critique – OSI vs. TCP/IP







Physical Layer, Topic 2.2, Theoretical Basis	Bandwidth limitations	Fourier <b>Bandwidth</b> Data Rate
Theor	■ Power	
2.2,	- Attenuation:	
opic	- Distortion:	
yer, T	Bandwidth	
al Lay	<ul> <li>Quoted as the range of frequencies</li> </ul>	
ıysica	<ul> <li>Further restrictions imposed</li> </ul>	<del></del>
立	Telephone lines	
	<ul> <li>Voice signal band-limited to</li> </ul>	
	- What's being lost?	
5		

tical Basis	Max Data Rate	Fourier Bandwidth <b>Data Rate</b>
.2, Theore	Nyquist's Formula:	
Physical Layer, Topic 2.2, Theoretical Basis	<ul> <li>Complete Reconstruction</li> <li>If a signal is band-limited (by</li> <li>Then it can be</li> <li>Only applies to</li> <li>Example: Telephone limited to</li> </ul>	from
6	■ C = 2 H log <sub>2</sub> V - C	

