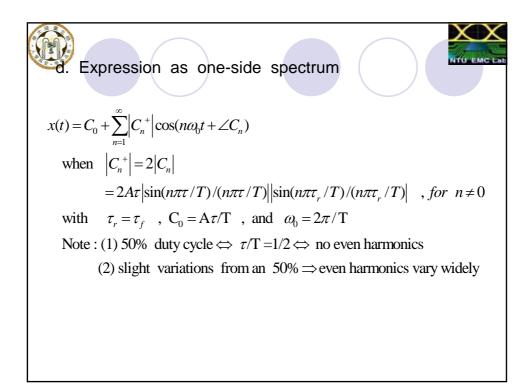
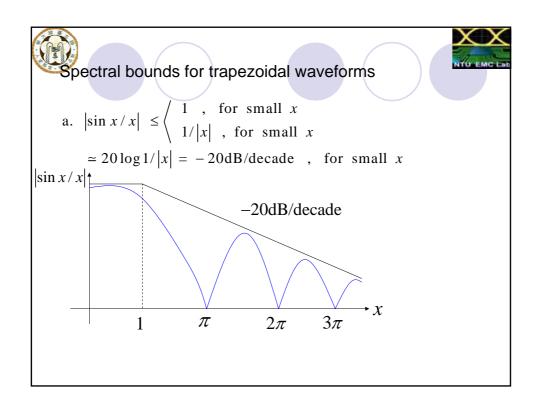
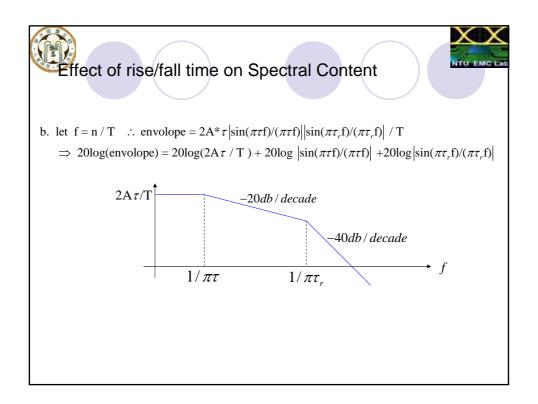
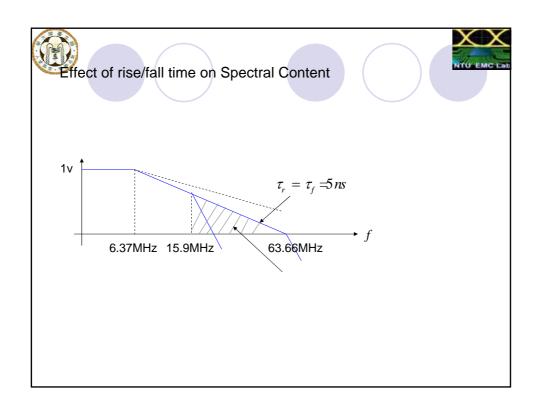


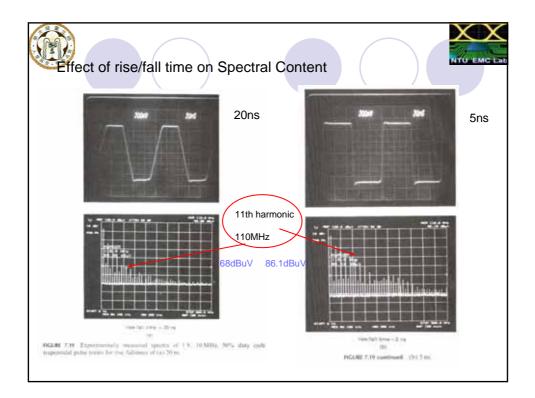
$$f(x'') = A / T\tau_r - A e^{-jn\omega_0\tau_r} / T\tau_r - A e^{-jn\omega_0(\tau + (\tau_r - \tau_f)/2)} / T\tau_f + A e^{-jn\omega_0(\tau + (\tau_r + \tau_f)/2)} / T\tau_f = A / T * [(e^{-jn\omega_0\tau_r/2} / \tau_r) * (e^{jn\omega_0\tau_r/2} - e^{-jn\omega_0\tau_r/2}) - (e^{-jn\omega_0\tau_r/2}e^{-jn\omega_0\tau} / \tau_f) * (e^{jn\omega_0\tau_f/2} - e^{-jn\omega_0\tau_f/2})] = j (A / 2\pi n) * (n\omega_0)^2 * e^{-jn\omega_0(\tau_r + \tau_f)/2} * [sin(n\omega_0\tau_r/2) * e^{jn\omega_0\tau/2} / (n\omega_0\tau_r/2) + e^{jn\omega_0\tau/2} / (n\omega_0\tau_f/2)] (3) F (x) = F (x'') / (jn\omega_0)^2 , n \neq 0 if $\tau_r = \tau_f C_n = A \frac{\tau}{T} \frac{sin(n\omega_0\tau/2)}{n\omega_0\tau/2} \frac{sin(n\omega_0\tau_r/2)}{(n\omega_0\tau_r/2)} e^{-jn\omega_0(\tau + \tau_r)/2}$$$

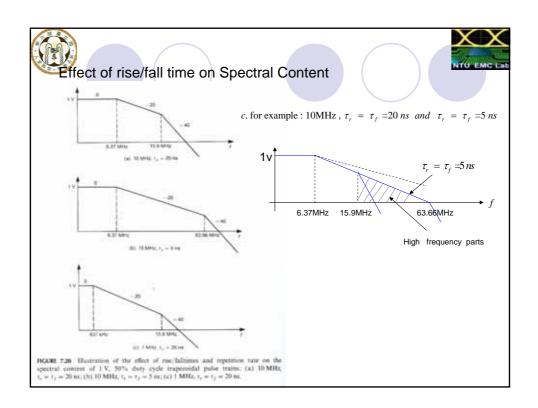


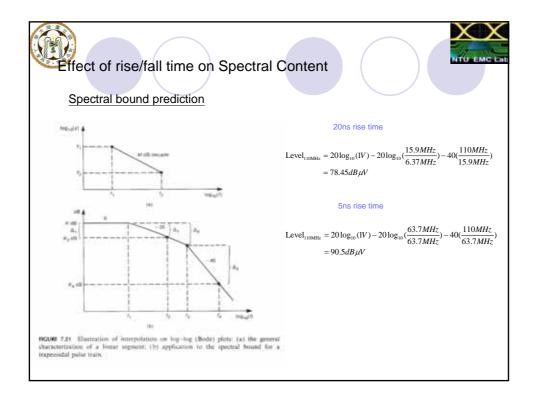




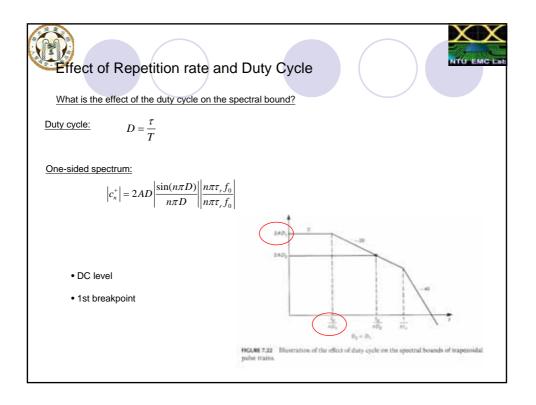


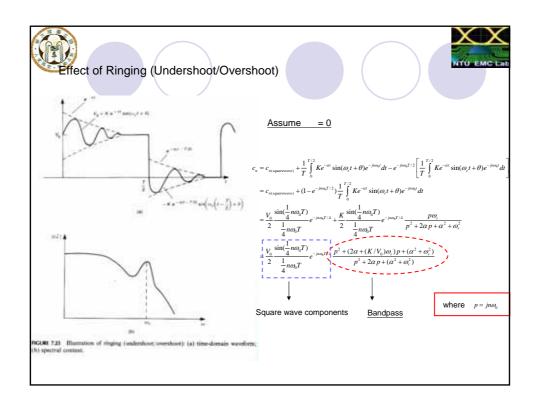


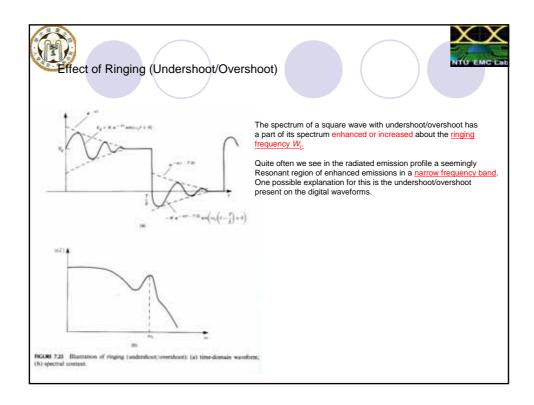


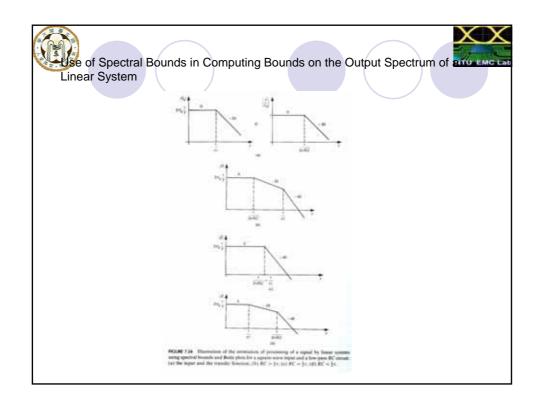


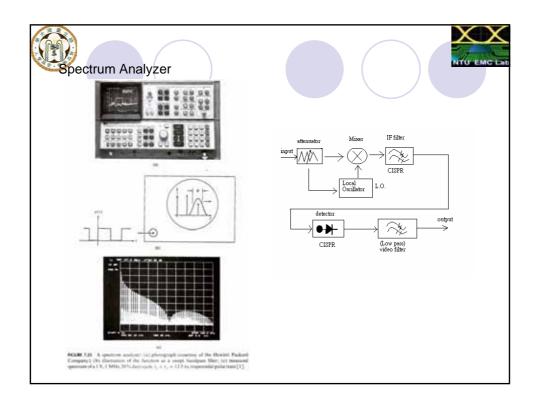
Effect of rise/		Spectral Content
20ns 5ns	73.8dBuV 90.4dBuV	Very close to the spectral bound prediction
The measured	l values are	
	68.8dBuV	
5ns	86.1dBuV	
	\downarrow	
Why are the	ney lower than t	he value by the exact calculations?
What is the	effect of the duty	cycle on the spectral bound?

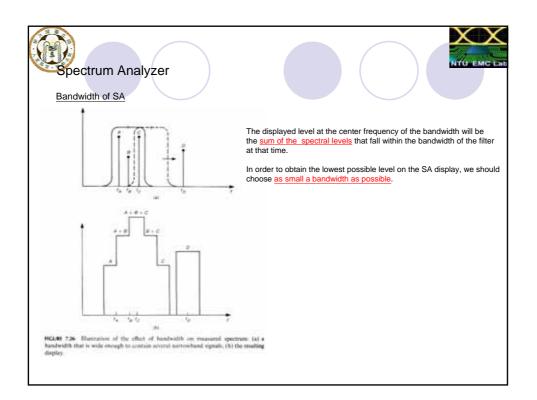












Spectrun	n Analyzer	
EMC rece	iver regulation	
	TABLE 7.1 FCC Minimum Spectrum Analyzer (6 dB).	Bandwidths
	Radiated emissions: 30 MHz 40 GHz Conducted emissions: 450 kHz-30 MHz	100 kHz 9 kHz
	TABLE 7.2 CISPR 22 Minimum Spectrum An widths (6 dB).	alyzer Band-
	Radiated emissions: 30 MHz 1 GHz Conducted emissions: 150 kHz-30 MHz	100 kHz 9 kHz

Spectrum A	nalyzer		NTO LMG
	TABLE 7.3 The Effect of the Ad Signals.	material and the second	
	Difference in Signal Levels (dB)	Increase in dB over the Larger of the Two	
	0	6.02	
	1	5.53	
	2	5.08	
	i i	4.65	
	4	4.25	
	5	3.88	
	6	3.53	
	7	3.21	
	8	2.91	
		2.64	
	10	2.39	
	19.3	1.0	

