

Spec Ref	Topic	TAP episode	comments
5.4.3	ultrasound, piezoelectric effect;		no material on ultrasound
	ultrasound scanning, A and B-scan;		
	acoustic impedance $Z = \rho c$		
	fraction of reflected intensity $I_r/I_0 = (Z_2 - Z_1)^2 / (Z_2 + Z_1)^2$		
	importance of impedance matching, use of a gel		
5.5.1	stars, galaxies and radiation		No material on the formation of planets and stars
	solar system, Sun, planets, planetary satellites and comets		
	the formation of a star		
	The Sun's evolution into a red giant and white dwarf;		
	evolution of large star into super red giant and neutron star or black hole;		
	astronomical units (AU), parsecs (pc) and light-years (ly)	704	
	Olbers' paradox	705-6	
	$\Delta\lambda/\lambda = v/c$	704-6	
	redshift, Hubble's law and constant	704	
	the cosmological principle		No reference
	microwave background radiation	705	
5.5.2	big bang model	704	
	age and evolution of universe $\approx 1/H_0$	704-3	
	<i>critical density</i>	705	