



BCS Prediction:  
 $\frac{2\Delta(0)}{k_B T_c} = 3.528$

$\frac{\Delta(T)}{\Delta(0)} = 1.74 \left(1 - \frac{T}{T_c}\right)^{1/2}$   
( $T > T_c$ )

Figure 10 Reduced values of the observed energy gap  $E_g(T)/E_g(0)$  as a function of the reduced temperature  $T/T_c$ , after Townsend and Sutton. The solid curve is drawn for the BCS theory.

TABLE 3 Energy Gaps in Superconductors, at  $T = 0$

									Al	Si	
									82.21		
									3.4		
									3.3		
Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge
		386.9							58.02	79.79	
		16							2.4	3.3	
		3.4							3.2	3.5	
Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn (w)
		712.5	65.23						36.27	25.39	278.1
		30.5	2.7						1.5	10.5	11.5
		3.80	3.4						3.2	3.6	3.5
La fcc	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg (w)	Tl	Pb
57.4		338.5							399.0	177.7	660.1
19		14							16.5	7.35	27.3
3.7		3.60							4.6	3.57	4.38

$\frac{2\Delta(0)}{k_B T_c}$

$h\nu = E_g$