

ERRATUM

No.	Page	Location	Original	Corrected
Chapter One				
1	p. 1-1	below (1.3)	$v = 2\pi/\omega$	$v = \omega/2\pi$
2	p. 1-10	Eq. (1.46)	$L^3 = \frac{\hbar^2}{meF}$	$L^3 = \frac{\hbar^2}{2meF}$
3	P. 1-11	Fig. 1-6	z and $A_i(z)$	\bar{z} and $A_i(\bar{z})$
4	p.1-14	Eq. (1.67)	$\frac{2m(E - V_o)}{\hbar^2}$	$\frac{2m(E - V_o)}{\hbar^2}$
5	p.1-14	Below (1.68)	$\sqrt{2m(E - V)/\hbar^2}$	$\sqrt{2m(E - V_o)/\hbar^2}$

Chapter Two

1	p. 2-8	Sec.2.2, line 9	(Na)	(Cl)
		Sec.2.2, line 10	(cation)	(anion)
		Sec.2.2, line 12	(Cl)... (anion)	(Na)... (cation)
2	P. 2-14	Above (2.19)	$R(r) = f(r)$	$R(r) = rf(r)$
3	p.2-24	Eq. (2.27)	$\exp(2n\pi x/a)$	$\exp(i2n\pi x/a)$
4	p.2-33			See correction page
5	p.2-34	Problem 7	(Fig. 2-19)	(Fig. 2-29)

Chapter Three

1	p.3-8	last second line	$E - E_0$	$E = E_0$
2	p.3-10	Eq. (3.43)	$\psi(z + Na) = \lambda_N \psi(z)$	$\psi(z + Na) = \lambda^N \psi(z)$
3	p.3-11	Eq. (3.51)	$\exp(i2\pi Mx/Na)$	$\exp(i2\pi Mz/Na)$
4	p.3-16	Eqs. (3.67ab)	x in $\exp()$	change x to z
5	p.3-17	Eqs.(3.68-69)	all terms	change x to z
6	p.3-18	Eq.(3.73)	last exp term	change x to z
7	p.3-19	Eq.(3.85)	right hand side	change x to z
8	p.3-29	Eq.(3.137)	last term, numerator	change aW to dW
9	p.3-29	Eq.(3.138)	last term, denominator	change a^2W to d^2W
10	p.3-38	Prob. 8a	last term, denominator	change $m_o m^*$ to m^*

Chapter Four

1	p.4-11	Eq.(4-29)	second line, denominator	change $(h/2\pi)^2$ to \hbar^2
2	p.4-18	line one	cation	anion
3	p.4-18	item (b)	anion	cation
4	p.4-20	Fig.4-13 caption	cation	anion
5	p.4-21	Fig.4-14 caption	cation	anion
6	p.4-22	line 12	cation	anion
7	p.4-26	After Eq.(4.57)	reduce (4.47)	reduce (4.57)

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Chapter Five

1	p.5-24	Two line below Eq.(5-13)		change q to θ

Chapter Six

1	p.6-6	Table 6-2, ΔE_C of $Al_{0.3}Ga_{0.7}As/GaAs$		change 0.263 to 0.236
2	p.6-12	Eq. (6.8)	λ	ν
3	p.6-21	Line 3	$E_g(GaAs)=1.52$ (eV)	$E_g(GaAs)=1.42$ (eV)
4	p.6-22		See new page attached	

Chapter Eight

1	p.8-19	Eq.(8.59)/(8.62)	$D_p(k)$	$dD_p(k)$
2	p.8-19	Last line	$D_p(k)$	$dD_p(k)$
3	p.8-20	third line	$D_p(k)$	$dD_p(k)$

Chapter Nine

1	p.9-25	Eq.(9.54)	$V_i = -V$	$V_i = -V - F'W_{sp}$
2	p.9-50	line below Eq.(9.102)		Change C_p to C_π
3	p.9-50	Line above Eq.(9-104)		Change r_p to r_π

Chapter Ten

1	p.10-31	Last line	(Fig. 10-36)	Change to (Fig.10-37)
2	p.10-32	Fig. 10-36		Change to Fig.10-37
3	p.10-32	2nd to last line	Fig. 10-37	Fig.10-38
4	p.10-33	Fig. 10-37		Change to Fig. 10-38
5	p.10-33	Last paragraph	Figure 10-38	Figure 10-39
6	p.10-34	Fig.10-38		Change to Fig.10-39
7	p.10-34	Fig.10-39		Change to Fig.10-40
8	p.10-34	3rd to last line	Fig. 10-39	Fig.10-40
9	p.10-35	Fig.10-40		Change to Fig.10-41
10	p.10-35	Line 17	Fig.10-40	Change to Fig.10-41
11	p.10-35	Line 22	Figure 10-41	Figure 10-42
12	p.10-36	Fig. 10-41		Change to Fig. 10-42
13	p.10-36	Fig. 10-42		Change to Fig. 10-43
14	p.10-36	Line 7	(Fig.10-42)	(Fig.10-43)
15	p.10-36	Line 13	Fig.10-42	Fig.10-43
16	p.10-37	Line 12	Fig.10-41	Fig.10-42
17	p.10-37	Line 18	Fig.19-42	Fig.10-43
18	p.10-37	Line 22	Fig.19-41	Fig.10-42

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