

Errata: **Geophysical Inverse Theory**, 1994

Trivial punctuation and spelling errors are omitted from this list.

Chapter 2

102:Oslo in Table 2.07B, correct longitude is 10.45

103:in Table 2.07C, substitute "Perpignan" for "Perpingnan"

105:3 lines from bottom, substitute "quality" for "qualify"

116:after 1st equation substitute "dependent" for "independent"

Chapter 3

141:in equation (38) missing "(":

$$f(v_n+h) = f(v_n) + hf^{(1)}(v_n) + \int_0^h (h - \mu) f^{(2)}(\mu) d\mu . \quad (38)$$

142:4 lines from bottom, replace "bigger" with "smaller"

156:line 2, substitute "A" for "B"

162:5 lines from bottom, substitute "3.02(13)" for "3.02(4)"

166:equation (19) $(R_1^T)^{-1}$ for first matrix in the norm:

$$\frac{dX^2}{dv} = -2v^{-3} \|(R_1^T)^{-1} \hat{R}^T \hat{R} \mathbf{q}_0\|^2 \quad (19)$$

180:4 lines from end of para 2, correct figure reference "2.08b"

180:4 lines above equation (5), correct reference "3.05(16)"

180:2 lines above equation (5), correct reference "3.05(10)"

189:correct Parker-Shure reference "(1982)"

191:2nd line para 3, substitute "depleted" for "deleted"

Chapter 4

212:line 6 in para 2, insert "requires" after "This"

213:numerical width of f_2 is 1.9830

213:numerical width of f_3 is 5.2952

213:width of f_3 is $12a/\pi$

235:equation (37), swap 1st and 3rd elements in vector:

$$\mathbf{p}_0 = (-29.989, 0.0028, 0.0031) \mu\text{T} \quad (37)$$

235:Figure, y-axis should be in μT

276:bottom line, "long" for "lightly"

277:bottom line, "short" for "long"

Chapter 5

296:about page middle, author spelled "Cagniard"

298:equation (10) insert "-" before "2 π ":

$$E'(0) = \left. \frac{dE}{dz} \right|_{z=0} = -2\pi i f B(0) . \quad (10)$$

299:equation (16) delete factor of i in the denominator:

$$c(f) = \frac{1-i}{(4\pi f \mu_0 \sigma_0)^{1/2}} = \frac{z_0(1-i)}{2} . \quad (16)$$

303:line before last in exercise (i), replace 1/4 with 4 and 3/4 by 4/3

304:exponent of x in equation for ex (iv) must be $2\beta-2$:

$$\frac{d^2 u}{dx^2} = -\beta^2 \gamma^2 x^{2\beta-2} u(x)$$

306:equation (14) replace 1st "-" with "+":

$$= (m, m) + 2(m, \Delta) + (\Delta, \Delta) - (m, m) \quad (14)$$

312:in (13) replace m in brackets with m_1 :

$$(D_j, m_2) = d_j - F_j[m] + (D_j, m_1) . \quad (13)$$

322:just before (12), interval should read $b \leq x \leq c$

340:near bottom, replace "minute" by "enormous"!

352:2 lines after (2), replace $v(z)$ by $u(z)$

352:equation (6), replace u_n by v_n ;

$$(v_m, v_n) = 0, \quad m \neq n . \quad (6)$$

Appendix A

371:2 lines above (A1), correct equation reference is 2.07(60)

References

375:5 refs from bottom, author spelled "Cagniard"

379:line before bottom, "Construction" for "Conduction"