

Changes

1. Page 16, line 4: "for large n" should read "for large k".
2. Page 31, line 5: "Jacobian" mis-spelt.
3. Page 50, bottom line: Ψ should be lower case.
4. Page 51, eq. (3.52): The second x_0 should be bold-faced.
5. Page 56, line -3: $[(1 \mp v)/(1 \mp v)]^{\frac{1}{2}}$ should read $[(1 \pm v)/(1 \mp v)]^{\frac{1}{2}}$.
6. Page 122, line 1: Y_j^M should read Y_J^M .
7. Page 186, line 18: The first of the three equations (6.155) should read

$$\zeta = r^{\frac{1}{2}}(1 - rT^{\frac{1}{2}} \cos \theta)^{-1}$$

i.e. delete the first r.

8. Page 235, line 16: $(\xi/a(\eta))^4$ should read $(\zeta/a(\eta))^4$, i.e. Greek zeta.
9. Page 119, eq. (5.5): ζ should read ξ .
eq. (5.6): χ_Λ should read χ_η .
10. Page 122, eq. (5.23): $\sinh x$ should read $\sinh^J x$. Also, $(2 + J)^2$ should be J^2 .
11. Page 121, eq. (5.21): $\Pi_{kJ}^{(\pm)}(x)$ should read $\Pi_{kJ}^{(\pm)}(x)$, i.e. Greek chi.
12. Page 175, eq. (6.109), second term: $\frac{\delta W_{\text{div}}}{\delta g^{\mu\nu}}$ should read $g^{\mu\nu} \frac{\delta W_{\text{div}}}{\delta g^{\mu\nu}}$.
13. Page 199, eq. (6.206), first line, end: $T(1)$ should read $T^{(1)}$.
14. Page 192, eq. (6.183): Unbalanced brackets. Insert \rfloor after $\ln(12m^2R^{-1})$.
15. Page 75, eq. (3.138), first line: $((is)^{-n/2})$ should be $(is)^{-n/2}$.
16. Page 197, eq. (6.201), second line: $\frac{1}{2!} \epsilon^3 t_2^r$ should be $\frac{1}{2!} \epsilon^2 t_2^r$.
17. Page 197, eq. (6.202), line 4: $3DKTt^n(t^r)^2$ should be $3DKrTt^n(t^r)^2$.
18. Page 185, eq. (6.150), second line: $6D - 3\ddot{D}D$ should read $6\ddot{D} - 3\ddot{D}D$.
19. Page 186: Delete overall negative sign on right hand side of eq. (6.157).
20. Page 234, eq. (7.40), line 3: $\frac{7}{48} \dot{D}D$ should read $\frac{7}{48} \ddot{D}D$.
21. Page 234, eq. (7.41), line 5: ρ should read τ .
22. Page 234, eq. (7.43): $\frac{m^{-2}}{1440\pi^2}$ should read $-\frac{m^{-2}}{1440\pi^2}$.
23. Page 199, eq. (6.207), line 3: $\frac{2t^\mu t^\nu}{\sum}$ should read $\frac{2t_\mu t_\nu}{\sum}$.
24. Page 181, eq. (6.129), end: $d^n x$ should read $d^n x'$.
25. Page 181, eq. (6.131) last line: $g(x)$ should read $\bar{g}(x)$.

$g^{ij}(x)$

26. Page 11, eq. (2.8): u_k should be $u_{\mathbf{k}}$ (bold faced k).
27. Page 12, final equation in section (2.1): Replace $=$ by \equiv .
28. Page 24, eq. (2.91): k^2 should be k_0^2 (subscript zero).
29. Page 44: Reference to Hawking & Ellis should be to §2.8.
30. Page 58, para.2: "It follows from (3.34)" should read "It follows from (3.36)".
31. Page 60, Fig. 7: The labels A and B on the figure should be $A-B$ and $A+B$ respectively.
32. Page 74, eq. (3.126): $(-g)^{\frac{1}{4}}(x)$ should be $(-g(x))^{\frac{1}{4}}$.
33. Page 98, eq.(4.32): The labels below "lim" are incomplete. They should read:
- $$t', x_1', x_2', x_3' \rightarrow t, x_1, x_2, x_3$$
- $$t'', x_1'', x_2'', x_3'' \rightarrow t, x_1, x_2, x_3$$
- (This is a double limit.)
34. Page 99, eq. (4.35): $\phi_{\mu\nu}$ should be $\phi_{;\mu\nu}$.