Errata Fundamentals of Physics Vol I Expanded Edition
Many thanks to Sunjiv Varsani and Alan Lu for their contributions.

1. Change “time dilatation” to “time dilation” everywhere

2. Page 5: Para 3: “..and at time $t_2$ ended.”

3. Page 28, last line: $a_{bg} = a_{bp}$

4. Page 436, Exercise 4.9: “$v_{max} = \sqrt{2gh(1 + \frac{mg}{2kh})}$

5. Page 447, Exercise 2.9: need to use $F = ma$, not discussed yet.

6. Page 447, Exercise 2.10: “.. point on a horizontal flywheel.”

7. Page 453 Exercise 3.22, line 6: “.keeping its energy $E = mgh + \frac{1}{2}mv^2$ constant.”

8. Page 467 Exercise 7.7 part (iii): “rod” should read “stick”

9. Page 468 Exercise 7.15: $P = (\frac{E}{c}, p)$

10. Page 469, Exercise 7.18 $\theta(t) \simeq \ln \frac{2Ft}{mc}$

11. Page 470, Exercise 7.27, line 5: $\omega = |k|$

12. Page 475 Exercise 8.34 penultimate line: “complimentary” should be “complementary”

13. Page 487, Exercise 1.3: (ii) $-0.5s$

14. Page 487, Exercise 1.8: (iii) $\frac{(v_1-v_2)^2}{2(v_1+v_2)}$

15. Page 487 Exercise 1.11: (i) $1.76 \frac{m}{s^2}$ (ii) $7.92m$

16. Page 488 Exercise 2.1: (ii) $\theta = \tan^{-1}(4/3)$

17. Page 490 Exercise 3.19: Exchange (i) and (ii)

18. Page 492, Exercise 5.21: $1.39s$


20. Page 493, Exercise 6.34: (ii) $m \leftrightarrow M$

21. Page 493, Exercise 6.35 (i) Units Newtons (ii) $625\sqrt{3}i + 1125j$

22. Page 494, Exercise 7.13: 17.2 years

23. Page 495, Exercise 7.31: $M = 10.72 GeV/c^2$

24. Page 496 Exercise 8.22 (i) 2.8s

25. Page 496, Exercise 8.34 (ii) $x(t) = 0.103 \cos(16t - 2.98)$ (Use $\tan \theta = \tan(\theta + \pi)$)

26. Page 505 Index item: “complimentary” should be “complementary”