Erratum for Chapter 2, Ch02BridgeSRtoGR170511v1.pdf:

The following error correction is for those who use the *Safari* browser. This browser fails to show Figure 9 in Chapter 2, which is reproduced below.

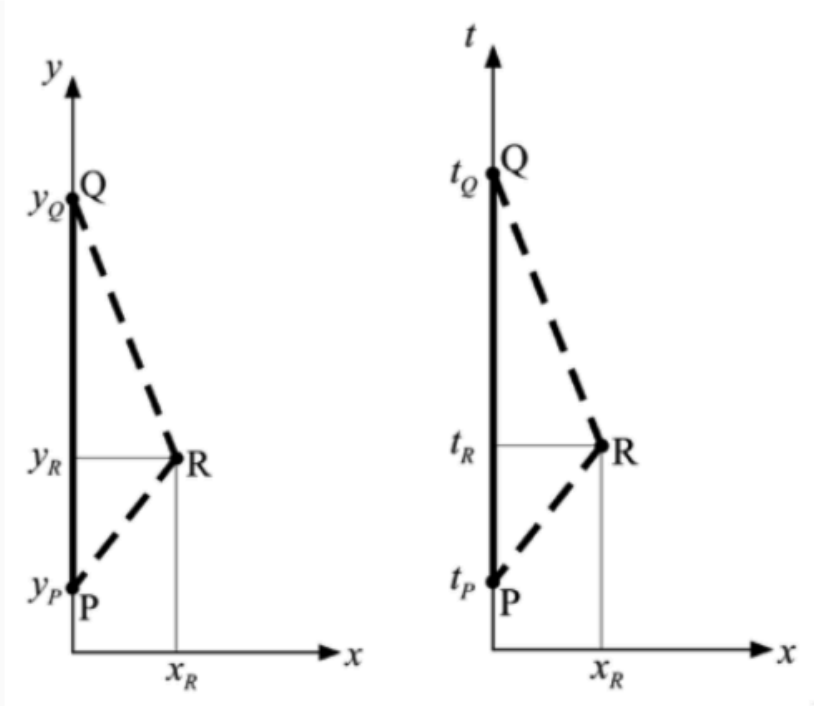

FIGURE 9 Left panel: Euclidean plane showing straight line PQ and broken line PRQ. Right panel: Spacetime diagram showing straight worldline PQ and broken worldline PRQ.

This is the only error that the Safari browser makes for the entire book.

The Firefox browser correctly shows Figure 9 in Chapter 2 and all of every other chapter.

We ask users of other browsers to let us know if they make errors of reproduction of the second edition of Exploring Black Holes.

Errata from Chapter 12 to Chapter 20:

CHAPTER	WHERE	CHANGE FROM	CHANGE TO
Ch12DivingPanoramas190403v1.pdf	p. 12-3, Line 73	see the to see	see
Ch12DivingPanoramas190403v1.pdf	p. 12-8, Line 154	Figure 3 above an	Figure 3 above and
Ch12DivingPanoramas190403v1.pdf	p. 12-12, Sample Problems 1, part C	SOLUTION: Begin with Figure 10	SOLUTION: Begin with Figure 8
Ch12DivingPanoramas190403v1.pdf	p. 12-12, Sample Problems 1, part C	These intersections correspond to $\theta_{\text{rain}} \approx \pm 110°$. These angles are greater than $\pm 90°$, so the rain observer looks somewhat benind her	These intersections correspond to $\theta_{\text{rain}} \approx \pm 35°$. These angles are smaller than $\pm 90°$, so the rain observer looks in front of her
Ch12DivingPanoramas190403v1.pdf	p. 12-14, Line 344	becomes $360° - \cos\theta$	becomes $\cos(360° - \theta)$
Ch12DivingPanoramas190403v1.pdf	p. 12-14, Line 345-346	aberration equation (54) in exercise 18 of Chapter 1	aberration equation (56) in exercise 22 of Chapter 1
Ch13GravitationalMirages160510v1.pdf	p. 13-8, Line 187	equation (40) of Section 11.6	equation (38) of Section 11.7
Ch13GravitationalMirages160510v1.pdf	p. 13-8, Line 191	equation (40) of Section 11.6	equation (38) of Section 11.7
Ch13GravitationalMirages160510v1.pdf	p. 13-8, Line 198	equation (27) in Section 11.4 to convert	equation (29) in Section 11.5 to convert

Ch13GravitationalMirages160510v1.pdf	p. 13-10, Box 1, left column	From (11) plus equation (27) in Section 11.4	From (11) plus equation (29) in Section 11.5
Ch14ExpandUniverse170331v1.pdf	p. 14-0, Line 5	Roberson-Walker	Robertson-Walker
Ch14ExpandUniverse170331v1.pdf	p. 14-5, Line 124	a scale factor in curved spacetime. Euclid does not describe curved spacetime,	a scale factor in curved space. Euclid does not describe curved space,
Ch14ExpandUniverse170331v1.pdf	p. 14-13, Box 4, left column	a galaxy formed at t_{emit} = 0.7 billion years ago?	a galaxy formed at t_{emit} = 0.7 billion years?
Ch15Cosmology170510v1.pdf	p. 15-11, Line 370	In Query 9 you showed	In Query 2 you showed
Ch15Cosmology170510v1.pdf	p. 15-23, Query 10, part D	From Figure 1, show that Einstein's model is unstable	From Figure 2, show that Einstein's model is unstable
Ch15Cosmology170510v1.pdf	p. 15-31, equation (54)	$-\int_{t_0^t} \frac{dt'}{a(t')}$	$-\int_{t_0}^{t} \frac{dt'}{a(t')}$
Ch16GravWaves171018v1.pdf	p. 16-3, Line 93	to describe this waves	to describe these waves
Ch16GravWaves171018v1.pdf	p. 16-5, Line 135	is about 10^{-21} x $100^{1/2} = 10^{-23}$	is about 10^{-23} x $100^{1/2} \approx 10^{-22}$
Ch16GravWaves171018v1.pdf	p. 16-5, Line 137	10^{-21} x 4 x 10^{3} = 4 x 10^{-18} meters	10^{-22} x 4 x 10^{3} = 4 x 10^{-19} meters
Ch16GravWaves171018v1.pdf	p. 16-8, Line 240	decreases as the inverse *r*-separation	decreases as the inverse square of the *r*-separation

Ch16GravWaves171018v1.pdf	p. 16-9, Lines 268-269	measures the changing interference of light waves round-trip *time delays*sent down the two legs of the detector.	measures the changing interference of light waves due to the different round-trip *time delays* for light beams sent down the two legs of the detector.
Ch16GravWaves171018v1.pdf	p. 16-9, Line 272	detector along	detector is along
Ch17SpinBH200224v1.pdf	p. 17-6, equation (11), first term on right hand side	$\ldots - \omega^2 R^2)$	$\ldots - \omega^2 R^2) dT^2$
Ch17SpinBH200224v1.pdf	p. 17-11, Line 294	In Query 2 you showed	In Query 1 you showed
Ch17SpinBH200224v1.pdf	p. 17-12, Line 317	singulariy	singularity
Ch17SpinBH200224v1.pdf	p. 17-17, Line 435	equation (40) in Section 1.10	equation (41) in Section 1.10
Ch17SpinBH200224v1.pdf	p. 17-20, equation (52)	Phythagoras	Pythagoras
Ch18CircleOrbitsSpin170905v3.pdf	p. 18-3, equation (15)	(15)q	(15)
Ch18CircleOrbitsSpin170905v3.pdf	p. 18-4, Line 112	angular momentum equation (110)	angular momentum equation (111)
Ch18CircleOrbitsSpin170905v3.pdf	p. 18-16, Line 361	expressions for $dT/d\tau$ and $d\Phi/d\tau$	expressions for $dT/d\tau$ and $d\Phi/dT$

Ch18CircleOrbitsSpin170905v3.pdf	p. 18-24, Line 572	equations (31) for E/m and (32) for L/m	equations (32) for E/m and (31) for L/m
Ch18CircleOrbitsSpin170905v3.pdf	p. 18-26, equation (66), denominator of right hand side	$2r^3(r-3M)^{3/2}$	$2r^{3/2}(r-3M)^{3/2}$
Ch19OrbitingSpin180113v1.pdf	p. 19-22, Line 518	sigularity	singularity
Ch19OrbitingSpin180113v1.pdf	p. 19-24, Line 528	$r_2 = 0.17076M$	$r_1 = 0.17076M$
Ch19OrbitingSpin180113v1.pdf	p. 19-25, Line 602	the the black hole	the black hole
Ch20OrbitsOfLightAroundSpinningBH170906v1.pdf	p. 20-6, Line 122	reduce to equations (25) and (26)	reduce to equations (24) and (25)