Errata for *Fundamentals of Geometrical Optics*

by Virendra Mahajan

p. 14, line after Eq. (1-17) — The word “reflected” should be “refracted”.

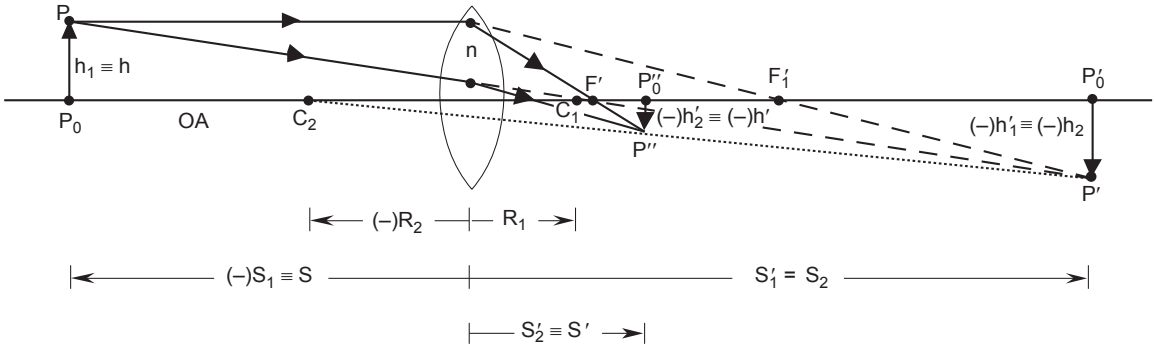
p. 24, end of Section 1.6.10 — The reference to Eq. (8-1) should refer to Eq. (8-5).

p. 48, first paragraph — The reference to Eq. (2-7) should refer to Eq. (2-9).

p. 55, last paragraph — The theta and theta prime should be transposed.

p. 66, Eq. (2-35b) — *n* should not have a subscript.

p. 66, Fig. 2-21 — The corrected figure appears below:



p. 69, Eq. (2-48) — The final part of the equation should have a minus sign:

$$= -\frac{S\left(S+2f'\right)}{\left(S+f'\right)^2}.$$

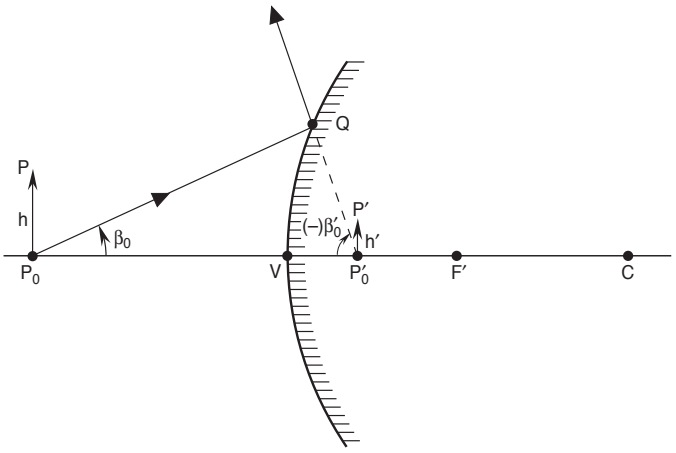
p. 85, Eqs. (2-97) and (2-98) — The variable n_j' should be removed.

p. 97, Eq. (2-115a) — The minus sign before the final part of the equation should be removed.

p. 99, second line of Section 2.7.3 — The reference to Eq. (2-100) should be (2-121a), and the reference to Eq. (2-104a) should be (2-117).

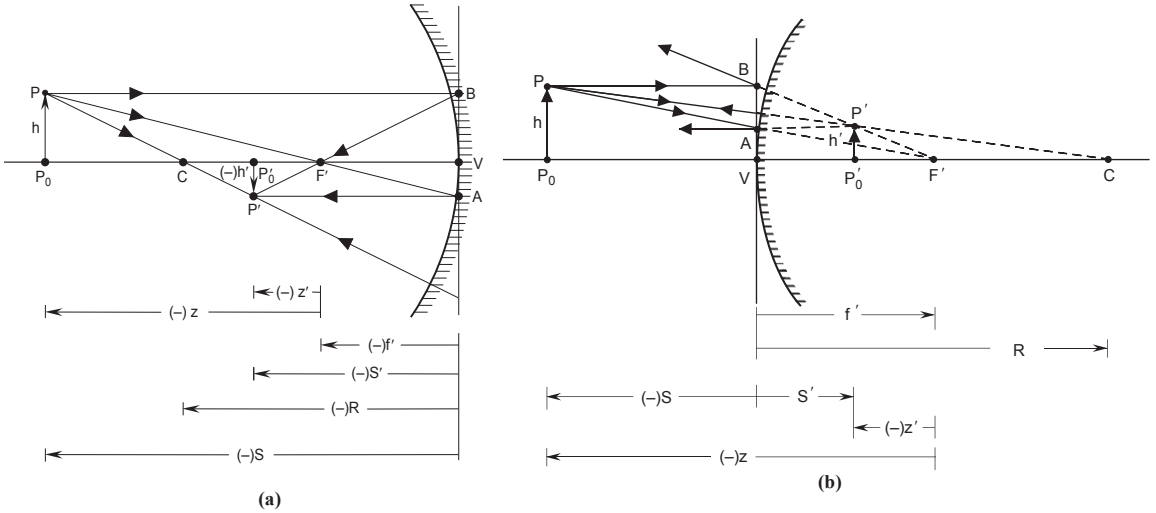
p. 125, Fig. 3-4b

The corrected figure appears below:



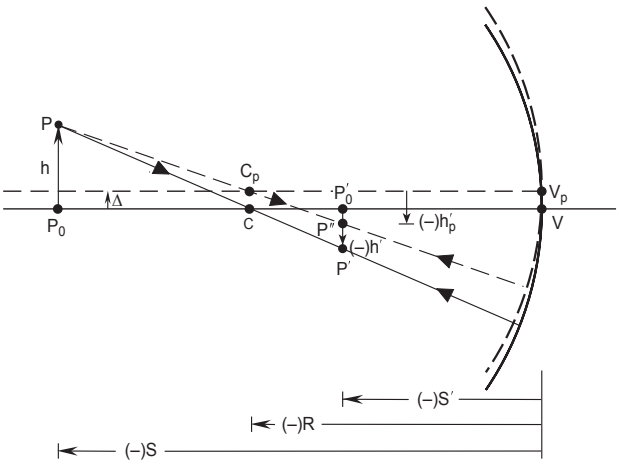
p. 128, Fig. 3-6

The corrected figure appears below:



p. 137, Fig. 3-12

The corrected figure appears below:

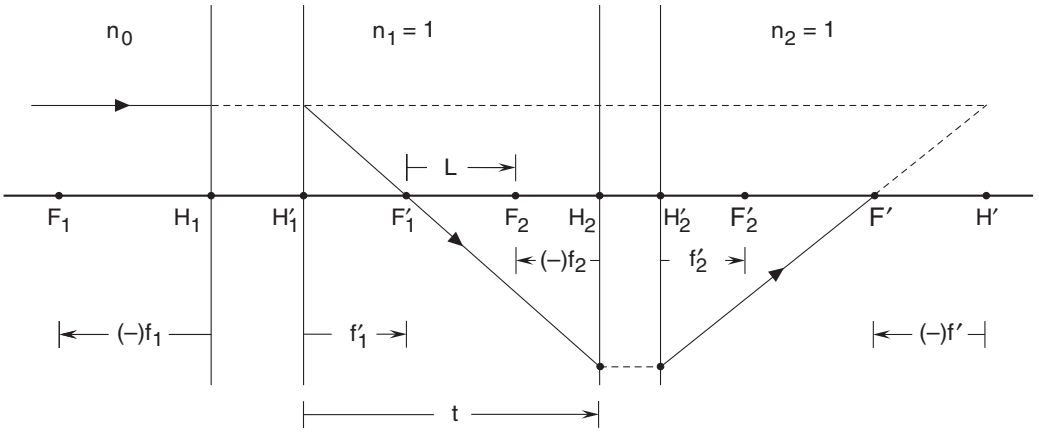


p. 144, Problem 3.2

The problem description has been updated: "A curved mirror is used on the passenger side of an automobile to reduce its blind spot. (a) Explain if this mirror is concave or convex, and illustrate how such a mirror reduces the blind spot. (b) Explain why it has the inscription that 'Objects in the mirror are closer than they appear.'"

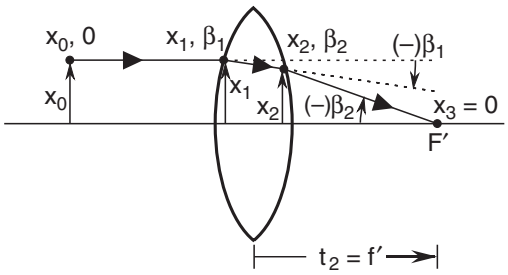
p. 156, Fig. 4-7

The corrected figure appears below:



p. 157, Fig. 4-8(b)

The corrected figure appears below:



p. 160, Fig. 4-9

There should be a horizontal line running through point F and point C_1.

p. 165, last sentence

The reference to Fig. 4-11 should refer to Fig. 4-12.

p. 167, second sentence

The references to Eqs. (4-40) and (4-43) should refer to Eqs. (4-49) and (4-52).

p. 170, second paragraph

The words "outermost" and "innermost" should be transposed.

p. 170, first paragraph

The equation should read $t_1 = f_1' - f_2'$

p. 172, first paragraph	The in-text equation should say $-\beta_0 t_1 \left(2 + t_1 / f_2'\right)$.
p. 200, line 21	The unnumbered equation after Eq. (5-4) should read $dS_1 = Id\Omega$.
p. 253, Eq. (6-9)	The correct equation should read: $$f' = -\frac{f_o' f_e'}{L}$$
p. 288, second line of Section 7.4	The reference to Eq. (2-97) should refer to (2-114).
p. 290	The reference to Eq. (2-97) should refer to (2-114), and the reference to Eq. (2-96a) should refer to (2-113a).
p. 327, Eq. (8-26)	The variable *h* in the second part of the equation should be *h'*.
p. 338, Table 8-3	The numbers in the last column should be $\lambda/3.97$, $\lambda/4.7$, $\lambda/3.33$, $\lambda/3.84$, and $\lambda/6.65$.
p. 339	The reference to Eq. (4-60) should refer to Eq. (8-60).
p. 340, Table 8-4	The numbers in the last column should be 1.01λ, 0.64λ, and 0.37λ.
p. 383, first sentence	The reference to Eq. (8-1) should refer to Eq. (8-5).
p. 384, second paragraph	The references to Eqs. (4-7) and (4-15b) should refer to Eqs. (9-7) and (9-11b), respectively.
p. 420, Problems	In Problem 9.1, the reference to Problem 2.5 should refer to Problem 2.6; a second sentence should be added: "Let its diameter be 1.5 cm." In Problem 9.3, the reference to Problem 7.2 should refer to Problem 9.2. In Problem 9.5, the reference to Problem 7.4 should refer to Problem 9.4.