Foundations of Binocular Vision
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First Edition, 2000
Errata as of December 15, 2003

Page ix, paragraph 2, line 1- The word “textbook” is misspelled.

Page xi, paragraph 1, line 6- The semicolon should be replaced with “and”.

Figure 2-18 (page 32)- The figure is correct, but its text description on page 33, paragraph 3 is reversed. It should read that “crossed disparity involves a *temporalward* shift of the images on the retina in one or both eyes, whereas uncrossed disparity involves a *nasalward* shift”.

Figures 3-6 (page 59) and 4-4 (page 86)- The labels “Horopter with fixation disparity” and “Horopter without fixation disparity” are reversed. The correct figure is below:

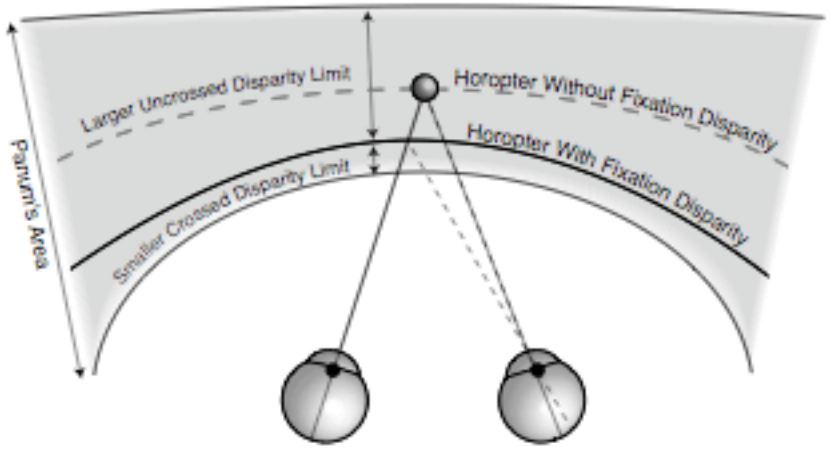
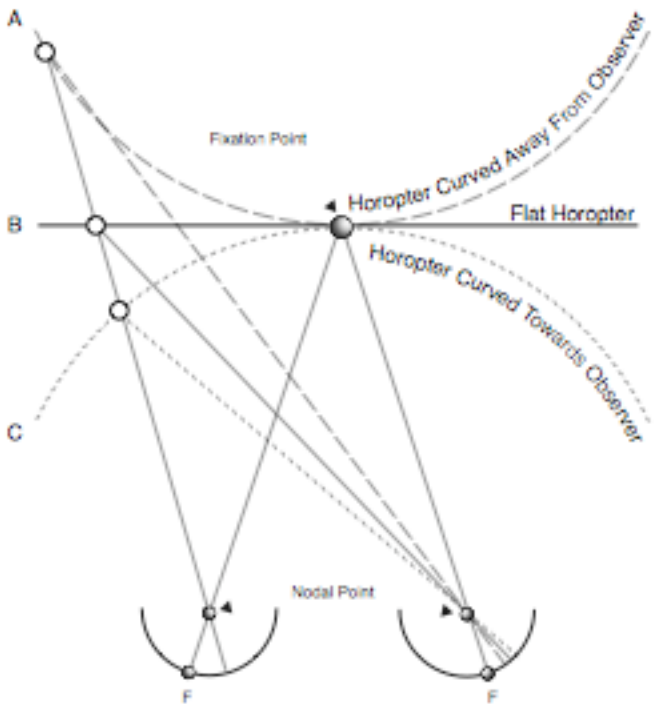


Figure 4-1 (page 82)- The word “horopter” is misspelled. The correct figure is below:

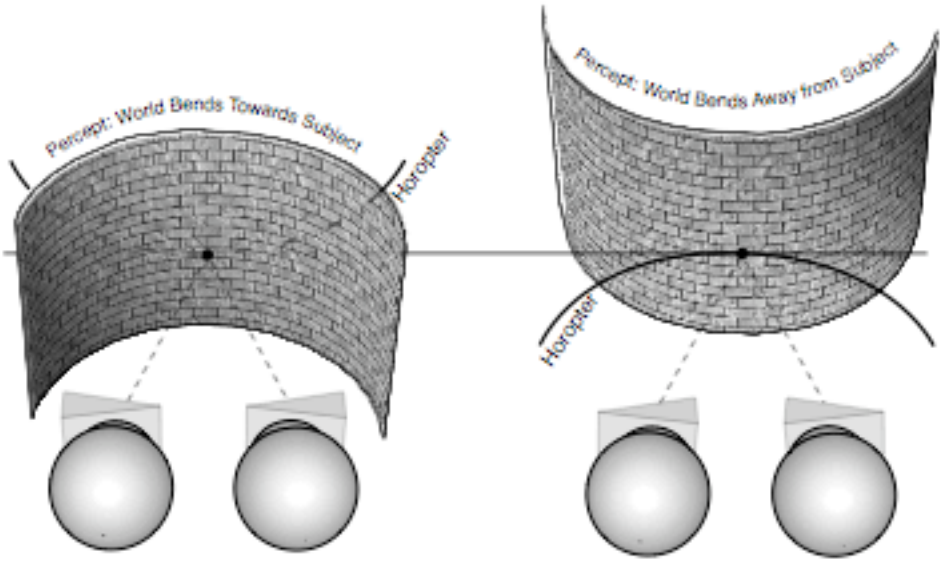


Page 93- The definition of the value R should read:

$$R = \tan \alpha_2 / \tan \alpha_1$$

Figures 4-12 and 4-13 (page 94)- The figure legends should read "*Nonius* horopter" rather than "AFPP horopter".

Figure 4-26 (page 112)- The left side of figure should be *BO* prism and the right side should be *BI* prism. The correct figure is below:



Page 148, paragraph 1, line 6- Delete the word “produce”.

Page 162- The square root symbols for the term $\sqrt{2}$ are misprinted as $\overline{2}$.

Page 193, paragraph 4- On line 5, “optical axis” should read “*visual* axis”. On line line 8, “temporally” should read “*nasally*”.

Figure 7-21 (page 205)- The thin-film beam-splitter is 90 degrees away from its correct orientation. The corrected figure is below:

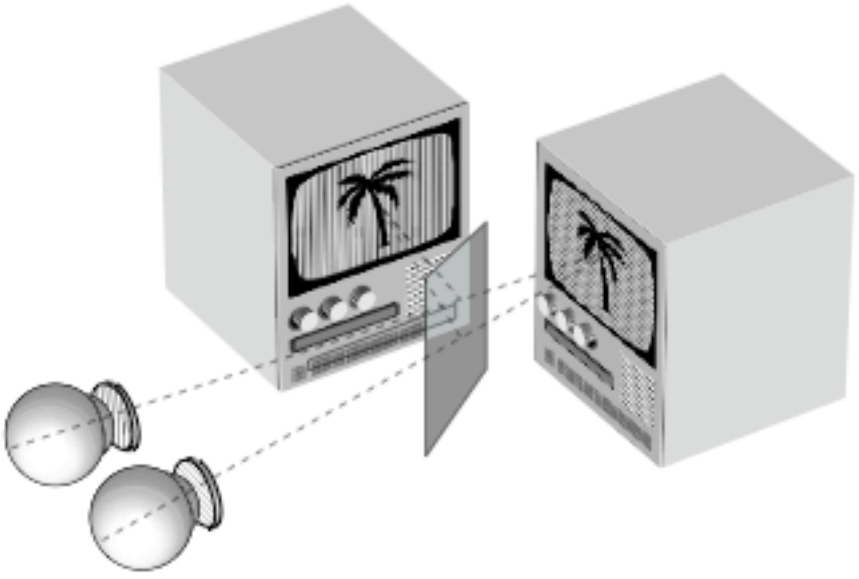


Figure 7-22 (page 205)- This figure has been redrawn to conform with standard ray

tracing of prismatic effects of the decentered lenses. An updated figure is below, although the light path is still not drawn perfectly yet:

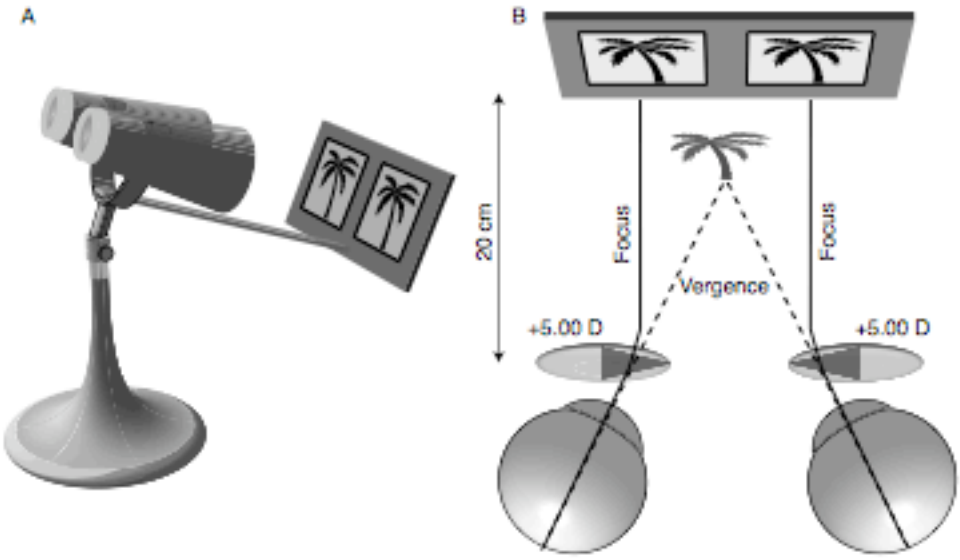
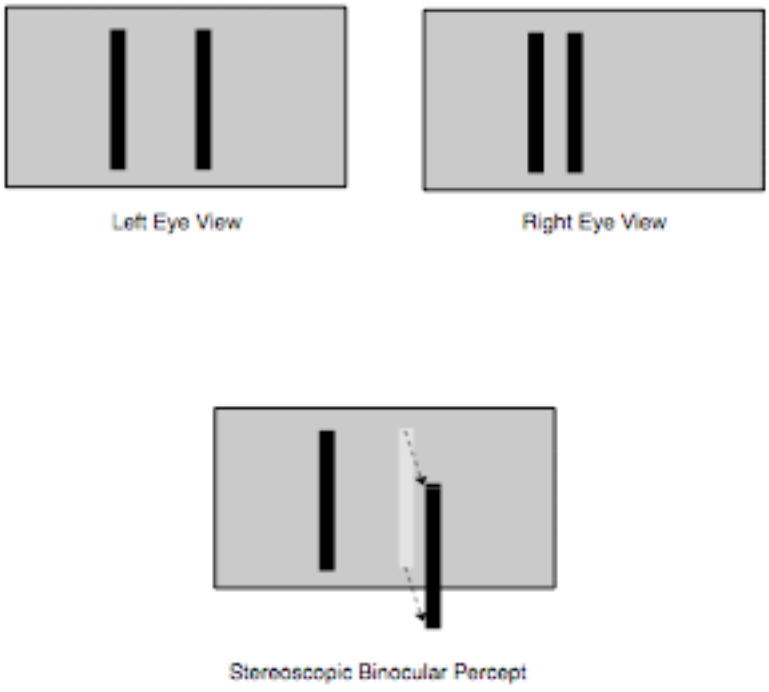


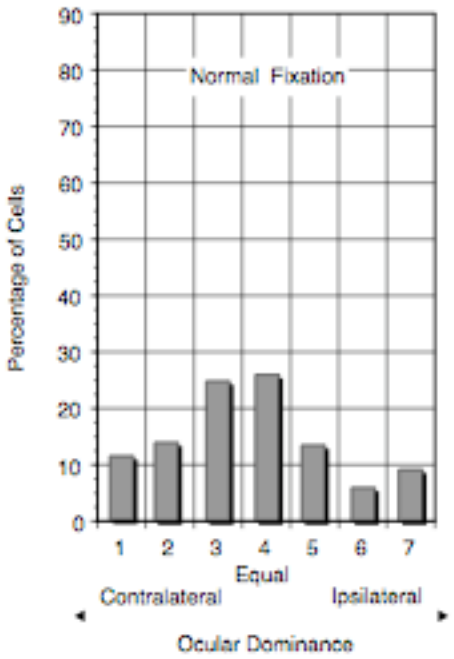
Figure 7-27 (page 211)- The right target in the right eye view should be displaced leftward rather than rightward in order to produce crossed disparity.

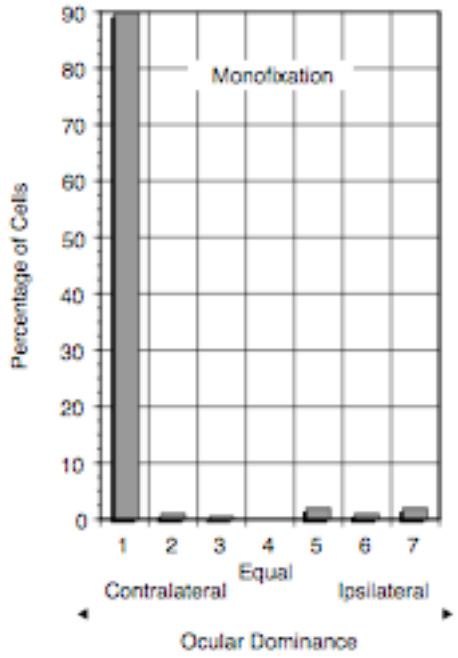


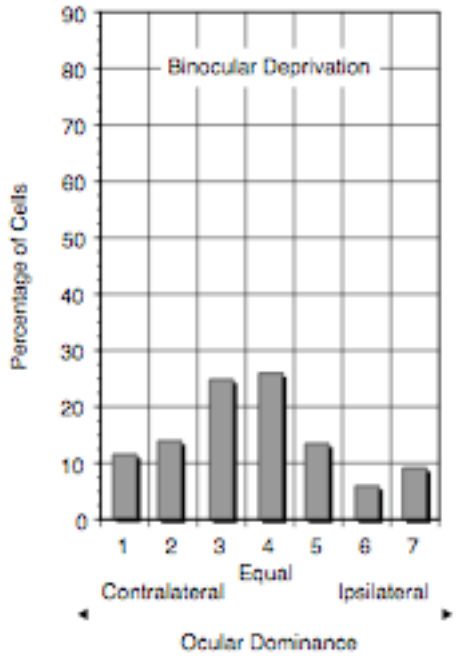
Page 239, paragraph 3, line 4- Chiasmal lesions yield bitemporal field defects due to the loss of optic nerve fibers from the nasal retina, not binasal defects.

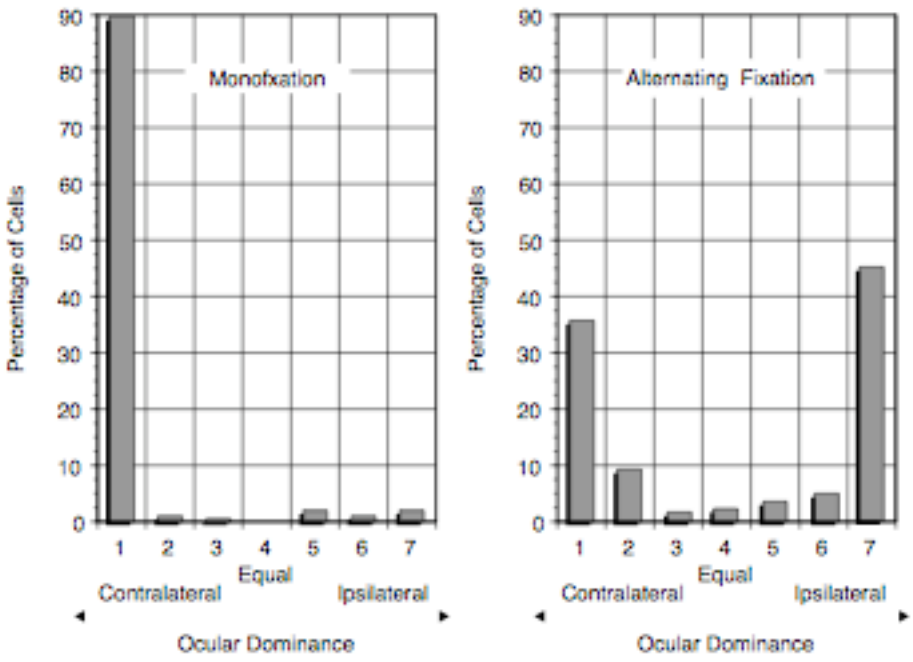
Page 240, paragraph 1, line 5- Layers 3 through 6 are P-cells.

Figures 9-9 (page 292), 9-10 (page 293), 9-13 (page 297) and 9-17 (page 303)- The ocular dominance histograms using the 7 level scale of Hubel and Wiesel, should indicate cells responding to the *contralateral* eye only for category 1 and the *ipsilateral* eye only for category 7. This means that each of these figures is a left-right mirror-image of what it should portray. The corrected figures, in order, are below:




Monofixation
Percentage of Cells
90
80
70
60
50
40
30
20
10
0
1 2 3 4 5 6 7
Equal
Contralateral
Ipsilateral
Ocular Dominance


Binocular Deprivation
Percentage of Cells
90
80
70
60
50
40
30
20
10
0
1 2 3 4 5 6 7
Equal
Contralateral
Ipsilateral
Ocular Dominance



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