

Corrections for the book CONVEX OPTIMIZATION THEORY,  
Athena Scientific, 2009, by Dimitri P. Bertsekas

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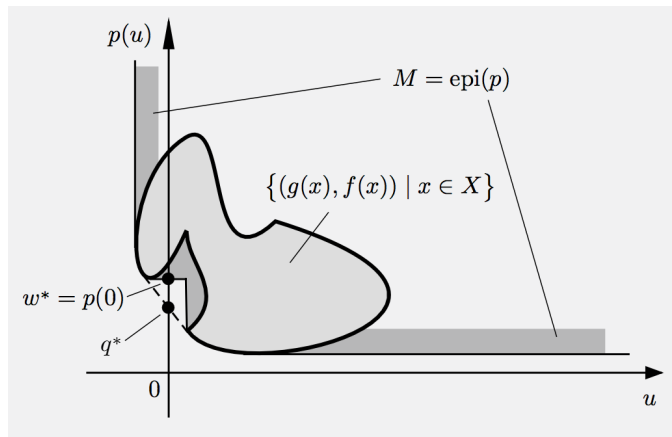
p. 78, (Figure 1.5.8) At the top of the figure change “Hyperplane  $H$  that” to “Hyperplane that”

p. 78, (+1) Change “since  $P$  and  $\overline{C}$  lie in the opposite closed halfspaces of  $H$ ” to “[if  $\bar{x} \in P \cap \text{ri}(\overline{C})$  then  $\bar{x} \in D \cap \text{ri}(\overline{C})$ , a contradiction since  $D$  and  $\text{ri}(\overline{C})$  lie in the opposite closed halfspaces of  $H$  and  $H \cap \text{ri}(\overline{C}) = \emptyset$ ”

p. 78, (-8) Change “(since otherwise 0 would be in the interior of  $P$ , which is impossible since  $0 \in H$  and  $P$  lies in a closed halfspace of  $H$ )” to “[since otherwise 0 would be in the interior of  $P$ ; then, by the Line Segment Principle, for any  $\bar{x} \in \text{ri}(\overline{C})$  the line segment connecting 0 and  $\bar{x}$  contains points in  $\text{ri}(D) \cap \text{ri}(\overline{C})$ , a contradiction of the fact that  $H$  properly separates  $D$  and  $\overline{C}$ ]”

p. 79, (+5) Change “ $0 \in \overline{C}$ ” to “ $0 \in \overline{C} \cap M$ ”

p. 140 Fig. 4.2.2 should be corrected as follows:



p. 237, (+7) Change “Prop. A.2.6(b)” to “Prop. A.2.6(c)”