

Corrections for the book NONLINEAR PROGRAMMING: 3RD EDITION, Athena Scientific, 2016, by Dimitri P. Bertsekas

Last updated: 1/10/2017

Corrections to the 1ST PRINTING

p. 216 (-4) Add $+\nabla_{uu}^2 L(\phi(u), u, p(u))'$ at the end of Eq. (2.193).

p. 418 (-4) Rewrite the last sentence as follows:

The optimal solution is $x^* = (0, 0)$, and again it can be seen that there is no Lagrange multiplier λ^* such that

$$(\nabla f(x^*) + \lambda^* \nabla h(x^*))'(x - x^*) = x_1 + \lambda^* x_2 \geq 0, \quad \forall x \in X.$$

Here, condition (2) of Prop. 4.3.18 is satisfied, but condition (1), is violated.