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# Complementarity Problems

**Notations:** l$_+$ means l $\downarrow$; l $_-$ means l $\uparrow$; l = line

# Errata

1. pg. 1, l$_+$ 18: "the all principal" must be" "all the principal"
2. pg. 1, l$_+$20: "be agree", must be "to be in concordance"
3. pg. 3, l$_+$15: "respective studied", must be "studied respectively"
4. pg. 3, l$_+$ 18: "sutdy', must be "study"
5. pg. 3, l$_+$ 20: "researchers", must be "research"
6. pg. 7, l$_-$ 4: "$f_2 2$", must be "$f_2$".
7. pg. 8, l$_+$ 9: "$\langle x, x\rangle > 0$", must be "$\langle x, x^*\rangle > 0$"
8. pg. 29, l $_-$8: "$\mathrm{R}_+$", must be "$\mathrm{R}_+^n$"
9. pg. 46, l$_+$8: "of Interregional", must be "or Interregional"
10. pg. 62, In Proposition 3.4, we must have "hemicontinuous mapping and if $f$ is positive..."
11. pg. 69, l$_+$15: ";quasi-Newton", must be "quasi-Newton"
12. pg. 71, l$_+$1: we must have $\{x \in \mathrm{K} \,|T(x) \in \mathrm{K}^* \setminus \{0\}\}$
13. pg. 73, l$_-$14: "$\geq$", must be "$\leq$"
14. pg. 91, l$_+$16: "in case", must be "in this case"
15. pg. 100 :In Proposition 4.2.1, "are" must be "is"
16. pg. 107, l$_-$6: "transpose", must be "transposed"
17. pg. 110, l$_-$6: "$(1+\alpha)\, d(x, \mathrm{K}_n) \leq (1+\alpha)\, d(x, \mathrm{K}_n)$", must be "$(1+\alpha)\, d(x, \mathrm{K}_m) \leq (1+\alpha)\, d(x, \mathrm{K}_n)$"
18. pg. 115: In the case$(i)$, we must have "$\langle x, u\rangle < r$"
19. pg. 115, l$_+$14: "$\langle x_r, u\rangle = 0$"
20. pg. 116: In Definition 4.3.1, we must have "$conv(\{x_1, x_2, ..., x_n\}) \subseteq \ldots.$."
21. pg. 136, l$_+$9: we must have "is $\varphi$-asymptotically bounded with $lim \sup_{r \to +\infty} \varphi(r) < +\infty$"
22. pg. 157, l$_-$6: we must have "for $T$ in"
23. pg. 169, l$_-$10: "$f, g : \mathrm{K} \to E^{*}$", must be replaced by "$f : \mathrm{K} \to E^*$ and $g : \mathrm{K} \to E$ "
24. pg. 174: In Theorem 6.2.3,"$f(x), T_2(x)\rangle < 0$, must be "$\langle f(x), T_2(x)\rangle < 0$"

25. pg. 178: In Theorem 6.2.5, in condition $3^0$), "$c_1 S(x), T_1(x)\rangle < 0$, must be $c_1 \langle S(x), T_1(x)\rangle < 0$"
26. pg. 183, l $_-$3: $G(x_0), x_0 - f(x_0)\rangle$" must be $\langle G(x_0), G(x_0) - f(x_0)\rangle$
27. pg. 215: In Lemma 7.4.1, "$P_\alpha$" must be "$p_\alpha$".
28. pg. 229, l$_+$4: "$x* D$" must be $x* \in D$"
29. pg. 237, l$_+$9: "$M_{n'n}( )b$", must be "$M_{n'n}(R)$ be"
30. pg. 251: In Theorem 8.6.3, in condition $2^0$), " ss$(u_0)$", must be "$S(u_0)$"
31. pg. 252: In formula (8), $S(x_* \in \mathrm{K}$" must be $S(x_*) \in \mathrm{K}^*$
32. pg. 252, l$_-$7: "$y_n \leq Y_m$", must be "$Y_n \subseteq Y_m$"