ERRATUM TO “APPROXIMATE SUBDIFFERENTIALS AND APPLICATIONS. I: THE FINITE DIMENSIONAL THEORY”

BY

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In my paper Approximate subdifferentials and applications. I: The finite dimensional theory, this journal 281 (1984), 389–416:

(a) the formula in Proposition 4 (p. 395, line -12) must be

\[ \limsup_{h \to 0} \| h \|^{-1} | f(x + h) - f(x) - \langle x^*, h \rangle | = 0. \]

(b) Lines 7 and 8 on p. 396 must be

In other words, \( h \in T_z(S, z) \) if and only if for any sequences \( \{x_n\} \subset S \) converging to \( z \) and \( t_n \downarrow 0 \) there are \( u_n \to h \) such that \( x_n + t_n u_n \in S \) for all \( n \).

(c) The function in the displayed formula on p. 298, lines 17–19 must be

\[ f(x) = \begin{cases} 0, & \text{if } x \geq 0, \\ -|x|^{1/2}, & \text{if } x < 0. \end{cases} \]

I am indebted to L. Thibault for pointing out some of the miswritings.

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