NOTICE

ERRATUM

**'Second-order conditions for an exact penalty function' by
 T.F. Coleman and A.R. Conn**

[*Mathematical Programming* 19(1980) 178–185]

It has been brought to the authors' attention by A. Ben-Tal and J. Zowe that condition (iii) of Corollary 3 (see top of page 182) is incorrectly stated. It should read as follows:

(iii) $\forall y$ satisfying

$$\begin{aligned} & (y^T \nabla \phi_i = 0, i \in A_2 \text{ and } -1 < w_i < 1), \\ & (y^T \nabla \phi_i \leq 0, i \in A_2 \text{ and } w_i = -1), \quad (y^T \nabla \phi_i \geq 0, i \in A_2 \text{ and } w_i = 1), \\ & (y^T \nabla \phi_i = 0, i \in A_1 \text{ and } \lambda_i > 0) \quad \text{and} \quad (y^T \nabla \phi_i \geq 0, i \in A_1 \text{ and } \lambda_i = 0), \\ & y^T \left[\mu \nabla^2 f - \sum_{i \in V_1} \nabla^2 \phi_i + \sum_{i \in V_2} \text{sgn}(\phi_i) \nabla^2 \phi_i - \sum_{i \in A_1} \lambda_i \nabla^2 \phi_i + \sum_{i \in A_2} w_i \nabla^2 \phi_i \right] y > 0. \end{aligned}$$