

Then \mathbf{g}^{rep} and \mathbf{g}^{corr} are defined as follows:

$$(I) \quad \mathbf{g}^{rep} = \int_{\Omega} p_{\psi}(\boldsymbol{\epsilon}) \nabla_{\psi} f(T(\boldsymbol{\epsilon}, \psi)) d^n \boldsymbol{\epsilon}$$

$$(II) \quad \mathbf{g}^{corr} = \int_{\Omega} p_{\psi}(\boldsymbol{\epsilon}) f(T(\boldsymbol{\epsilon}, \psi)) \nabla_{\psi} \log(p_{\psi}(\boldsymbol{\epsilon})) d^n \boldsymbol{\epsilon}$$