Specific internal energy $u = u(s, v)$	$\mathrm{d}u = \left(\frac{\partial u}{\partial s}\right)_v \mathrm{d}s + \left(\frac{\partial u}{\partial v}\right)_s \mathrm{d}v$	$\mathrm{d}u = T\mathrm{d}s - p\mathrm{d}v$
Specific enthalpy $h = h(s, p)$	$\mathrm{d}h = \left(\frac{\partial h}{\partial s}\right)_p \mathrm{d}s + \left(\frac{\partial h}{\partial p}\right)_s \mathrm{d}p$	$\mathrm{d}h = T\mathrm{d}s + v\mathrm{d}p$
Specific Helmholtz energy $f = f(T, v)$	$\mathrm{d}f = \left(\frac{\partial f}{\partial T}\right)_v \mathrm{d}T + \left(\frac{\partial f}{\partial v}\right)_T \mathrm{d}v$	$\mathrm{d}f = -s\mathrm{d}T - p\mathrm{d}v$
Specific Gibbs energy $g = g(p, T)$	$\mathrm{d}g = \left(\frac{\partial g}{\partial T}\right)_p \mathrm{d}T + \left(\frac{\partial g}{\partial p}\right)_T \mathrm{d}p$	$\mathrm{d}g = -s\mathrm{d}T + v\mathrm{d}p$