$$\iiint\limits_{\mathcal{G}} \left[u\nabla^2 v + (\nabla u, \nabla v)\right] \mathrm{d}^3 V = \oiint\limits_{\mathcal{S}} u \frac{\partial v}{\partial n} \mathrm{d}^2 A \tag{5.3}$$

$$\iiint\limits_{\mathcal{G}} \left[u\nabla^2 v - v\nabla^2 u\right] \mathrm{d}^3 V = \oiint\limits_{\mathcal{S}} \left(u \frac{\partial v}{\partial n} - v \frac{\partial u}{\partial n}\right) \mathrm{d}^2 A \tag{5.4}$$