Robbins' formulae [Cooper, 1987]:

$$tg\,\psi_2 = (1 - e^2)tg\,\varphi_2 + e^2 \frac{N_1 \sin \varphi_1}{N_2 \cos \varphi_2} \tag{1}$$

$$\cot g \alpha_{12} = (\cos \varphi_1 t g \psi_2 - \sin \varphi_1 \cos \Delta \lambda) / \sin \Delta \lambda \tag{2}$$

 $\sin \sigma = \sin \Delta \lambda \cos \varphi_2 / \sin \alpha_{12}$

$$S = N_1 \sigma \left\{ 1 - \frac{\sigma^2}{6} h^2 (1 - h^2) + \frac{\sigma^3}{8} gh (1 - 2h^2) + \frac{\sigma^4}{120} [h^2 (4 - 7h^2) - 3g^2 (1 - 7h^2)] - \frac{\sigma^5}{48} gh \right\}$$

$$g^2 = \varepsilon \sin^2 \varphi_1$$

$$h^2 = \varepsilon \cos^2 \varphi_1 \cos^2 \alpha_{12}$$

$$\varepsilon = e^2 / (1 - e^2)$$

The ellipsoidal azimuth of point 1 from point 2 may be obtained from the equations (1) and (2) by substituting suffix 1 for suffix 2 and vice versa.

Reference:

Cooper, M. A. R. (1987) Control Surveys in Civil Engineering. London, William Collins Sons & Co Ltd..