解:

$$\frac{\partial H(\alpha, \lambda)}{\partial \alpha_{i}} = \frac{S_{i}}{\cos^{2} \alpha_{i}} + \frac{S_{i}V_{i}}{V} \cdot \frac{\sin \alpha_{i}}{\cos^{2} \alpha_{i}} + \frac{\lambda S_{i}S_{im}\alpha_{i}}{V \cos^{2} \alpha_{i}} + \frac{\lambda S_{i}S_{im}\alpha_{i}}{V \cos^{2} \alpha_{i}} = 0$$

$$= S_{i} \cdot \frac{V + V_{i}S_{im}\alpha_{i} + \lambda S_{im}\alpha_{i}}{V \cos^{2} \alpha_{i}} = 0$$

$$\frac{\partial H(\alpha, \lambda)}{\partial H(\alpha, \lambda)} = \frac{S_{i}}{V} \cdot \frac{S_{i}V_{i}}{V \cos^{2} \alpha_{i}} + \frac{\lambda S_{i}S_{im}\alpha_{i}}{V \cos^{2} \alpha_{i}} = 0$$

$$\frac{\partial H(a, \lambda)}{\partial \lambda} = \frac{S_i}{V \cos \alpha_i} - T = 0$$