$$|\mathbf{I} + \epsilon M_{11} \epsilon M_{21} + \epsilon M_{31} + \epsilon M_{41} + \epsilon M_{51}$$

$$|\epsilon M_{12} 1 + \epsilon M_{22} \epsilon M_{32} + \epsilon M_{42} + \epsilon M_{52}$$

$$|\epsilon M_{13} + \epsilon M_{23} 1 + \epsilon M_{33} \epsilon M_{43} + \epsilon M_{53}$$

$$|\epsilon M_{14} + \epsilon M_{24} + \epsilon M_{34} 1 + \epsilon M_{44} \epsilon M_{54}$$

$$|\epsilon M_{15} + \epsilon M_{25} + \epsilon M_{35} + \epsilon M_{45} 1 + \epsilon M_{55}$$

$$= \prod (1 + \epsilon M_{ii}) + O(\epsilon^{2})$$