Drehmatrix, Euler-Winkel

$$D = \begin{pmatrix} \cos(\varphi)\cos(\psi) \;-\; \sin(\varphi)\cos(\vartheta)\sin(\psi) & , & -\cos(\varphi)\sin(\psi) \;-\; \sin(\varphi)\cos(\vartheta)\cos(\psi) & , & \sin(\varphi)\sin(\vartheta) \\ \sin(\varphi)\cos(\psi) \;+\; \cos(\varphi)\cos(\vartheta)\sin(\psi) & , & -\sin(\varphi)\sin(\psi) \;+\; \cos(\varphi)\cos(\vartheta)\cos(\psi) & , & -\cos(\varphi)\sin(\vartheta) \\ \sin(\vartheta)\sin(\psi) & , & \sin(\vartheta)\cos(\psi) & , & \cos(\vartheta) \end{pmatrix}$$