# matrix

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## 1 Introduction

$$\begin{bmatrix} -\sin(\Omega)\sin(\theta(t))\cos(i) + \cos(\Omega)\cos(\theta(t)) & \sin(\Omega)\cos(\theta(t)) + \sin(\theta(t))\cos(\Omega)\cos(i) & \sin(i)\sin(\theta(t \\ -\sin(\Omega)\cos(i)\cos(\theta(t)) - \sin(\theta(t))\cos(\Omega) & -\sin(\Omega)\sin(\theta(t)) + \cos(\Omega)\cos(i)\cos(\theta(t)) & \sin(i)\cos(\theta(t \\ \sin(\Omega)\sin(i) & -\sin(i)\cos(\Omega) & \cos(i) \end{bmatrix}$$