

abc_to_theta.gce

Attributes

mainvars: a b c alpha beta cost sint

Description

abc_to_theta.gce employs the following equations to relate the general variables a, b, c to cost, sint, alpha, beta:

$$\begin{aligned}\alpha &= \frac{2}{3}a - \frac{1}{3}(b+c), \\ \beta &= -\frac{1}{\sqrt{3}}(b-c), \\ v_m &= \sqrt{\alpha^2 + \beta^2}, \\ \alpha &= v_m \cos t, \\ \beta &= v_m \sin t.\end{aligned}$$

AC behaviour is not implemented.