# Model Documentation of the:

## Brockett Integrator

## 1 Nomenclature

### 1.1 Nomenclature for Model Equations

$u_1$, $u_2$    Inputs

## 2 Model Equations

Model Equations:

$$\dot{x_1} = u1 \tag{1a}$$
$$\dot{x_2} = u2 \tag{1b}$$
$$\dot{x_3} = x_2 u_1 - x_1 u_2 \tag{1c}$$

Parameters:
Outputs:

## References

[1] Brockett, R. W.: *Asymptotic Stability and feedback stabilization*, 1983