Notation

General

		Subscript		
Quantity	**Notation**	Left	Right	**Example**
Scalar	lowercase	n/a	n/a	$a = 4$
Vector	lowercase, bold	frame	from $\rightarrow$ to	${}_{\mathcal{A}}\boldsymbol{r}_{AB}$
Homogeneous vector	lowercase, bold, tilde	frame	from $\rightarrow$ to	${}_{\mathcal{A}}\tilde{\boldsymbol{r}}_{AB}$
Matrix	uppercase, bold	n/a	n/a	$\boldsymbol{A}$
Transformation matrix[1]	uppercase, bold	n/a	to $\leftarrow$ from	$\boldsymbol{R}_{BA}$

[1] This includes passive rotations, homogeneous transformations, quaternions

Probability

Property	**Notation**
Probability	$\mathbb{P}(\cdot)$
Expectation	$\mathbb{E}(\cdot)$
Variance	$\mathrm{Var}(\cdot)$