

$$\begin{aligned}
| \mathbf{U}(v) | &= \sqrt{a_1^2(v) + a_1^2(v)}, \\
\arg(\mathbf{U}(v)) &= \operatorname{arctg} \frac{-a_2(v)}{a_1(v)}.
\end{aligned} \tag{3}$$