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Because \mathbf{a} and \mathbf{b} are orthogonal, $\mathbf{a} \cdot \mathbf{b} = 0$, and so $\alpha = \frac{\mathbf{a} \cdot \mathbf{c}}{\mathbf{a} \cdot \mathbf{a}}$ and $\beta = \frac{\mathbf{b} \cdot \mathbf{c}}{\mathbf{b} \cdot \mathbf{b}}$. Similarly, Orthogonal Projection In the preceding example, the vector $\alpha \mathbf{a}$ is called the projection of \mathbf{c} along \mathbf{a} , and $\beta \mathbf{b}$ is its projection along \mathbf{b} . Let us formulate this idea more generally.

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