

The diagram illustrates a matrix approximation. On the left, a large blue square labeled **Y** is shown. To its right is an approximation symbol \approx . This is followed by a green rectangle labeled **G**, a small yellow square labeled **w**, and an orange rectangle labeled **P**. A large gap separates this from the right side of the diagram. On the right, a large blue square labeled **Y** is shown, followed by an approximation symbol \approx , then the function f_w in italics, an opening parenthesis $($, a green rectangle labeled **G**, a plus sign $+$, an orange rectangle labeled **P**, and a closing parenthesis $)$.

$$\mathbf{Y} \approx \mathbf{G} \mathbf{w} \mathbf{P} \qquad \mathbf{Y} \approx f_w(\mathbf{G} + \mathbf{P})$$