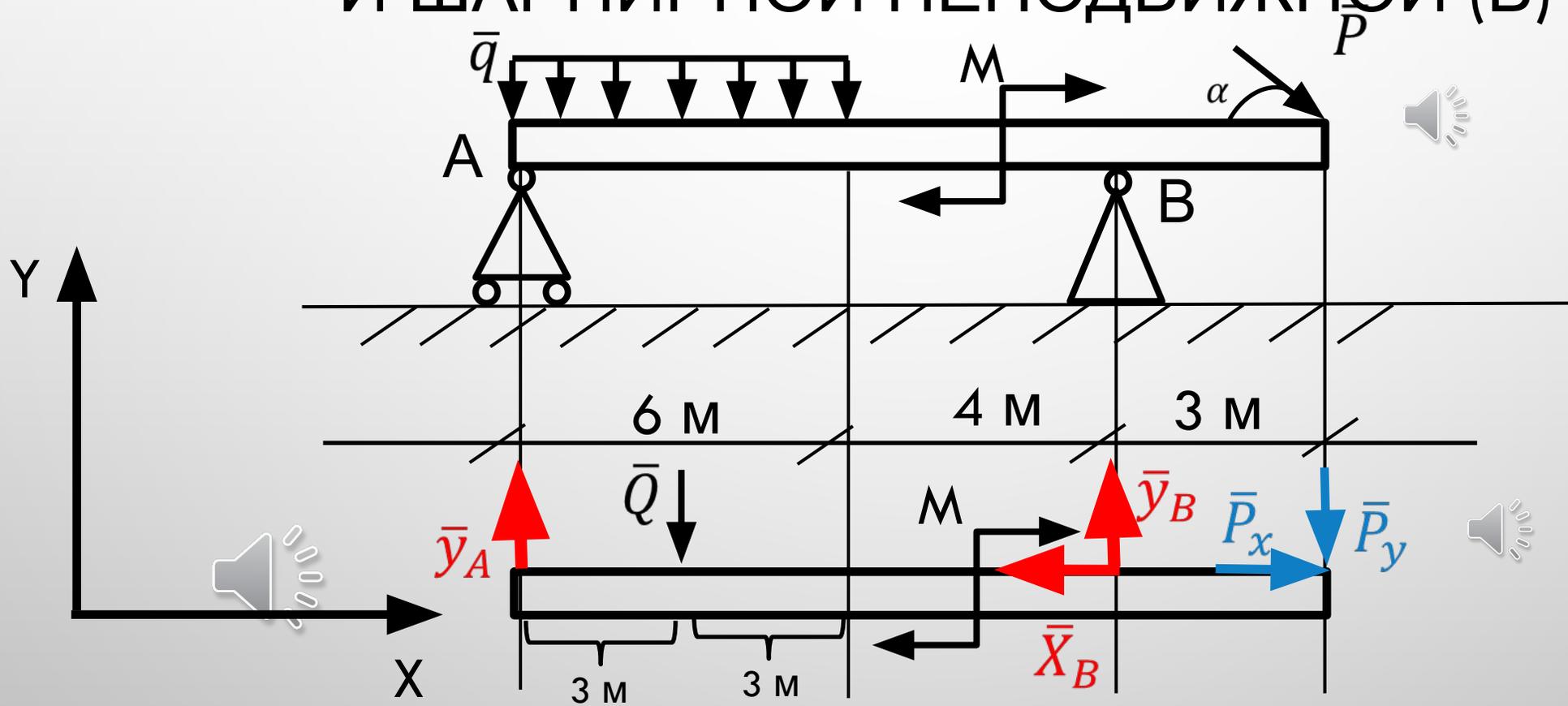


The background of the slide is a light gray gradient, decorated with several realistic water droplets of various sizes. The droplets are rendered with soft shadows and highlights, giving them a three-dimensional appearance. They are scattered across the page, with a larger one in the top left, another in the top center, and a large one in the bottom right.

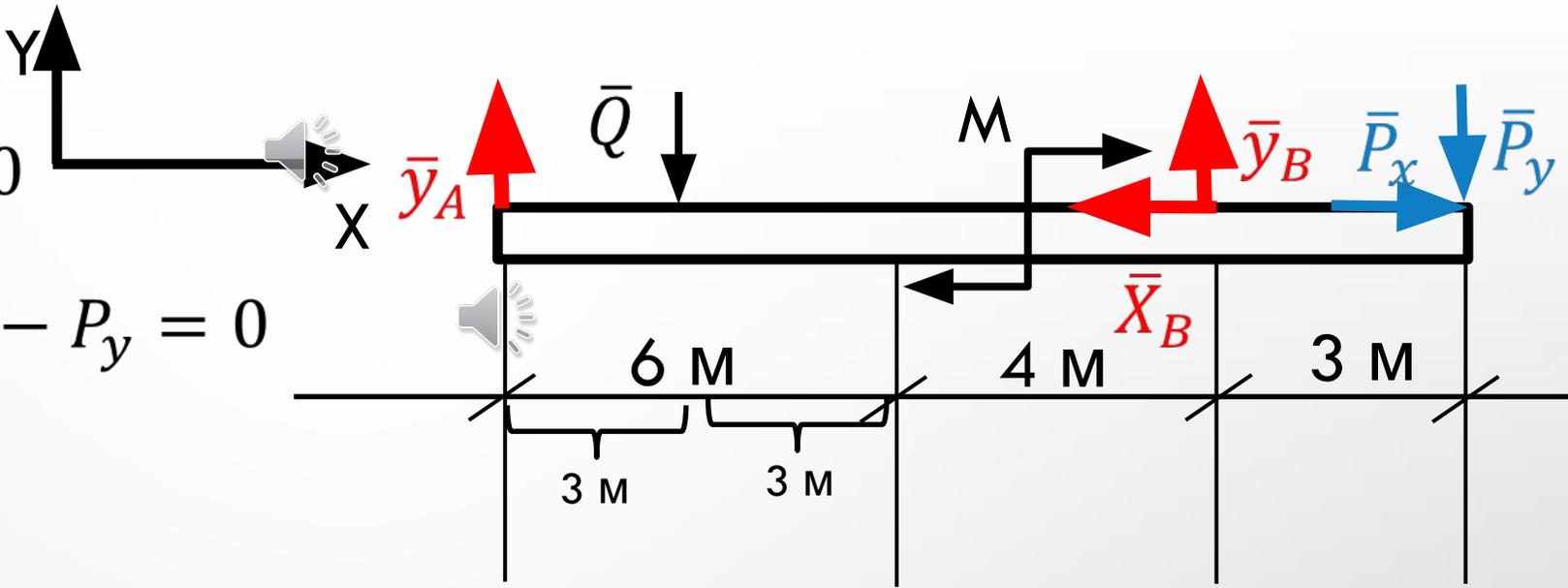
РАВНОВЕСИЕ ПРОИЗВОЛЬНОЙ ПЛОСКОЙ СИСТЕМЫ СИЛ.

БАЛКА

РАССМОТРИМ ПРЯМОЛИНЕЙНУЮ
КОНСТРУКЦИЮ (БАЛКУ), НАХОДЯЩУЮСЯ НА
ДВУХ ОПОРАХ: ШАРНИРНОЙ ПОДВИЖНОЙ (А)
И ШАРНИРНОЙ НЕПОДВИЖНОЙ (В)



- $\sum F_{kx} = 0 : -x_B + P_x = 0$
- $\sum F_{ky} = 0 : y_A - Q + y_B - P_y = 0$



- $\sum m_B(\bar{F}_k) = 0 : -y_A * 10 + Q * 7 - M - P_y * 3 = 0$

• ПРОВЕРКА

- $\sum m_A(\bar{F}_k) = 0 : -Q * 3 + y_B * 10 - M - P_y * 13 = 0$

• ЗАМЕЧАНИЕ

