

Section 5.2. Two Dimensional Applications

Note. A *support* offers forces (called *reactions*) to keep an object subjected to various forces in equilibrium. The direction of the reaction is often normal to the support. Table 5.1 gives a number of types of supports and the corresponding reactions.

Note. We will draw free body diagrams and calculate reactions from the equilibrium equations. We can use the scalar versions of these equations:

$$\sum F_x = 0, \quad \sum F_y = 0, \quad \sum M_{\text{any point } P} = 0.$$

Example. Page 230 Number 5.61.

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