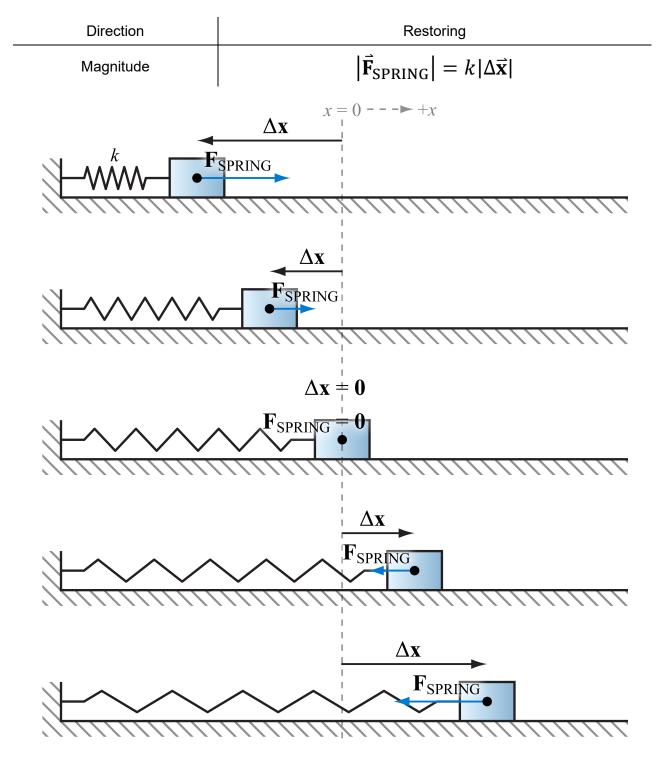
Hooke's law



It is possible to write down an expression that provides both the direction and the magnitude of the spring force. However, there is a convention for labeling free-body diagrams and substituting quantities into Newton's 2nd law in which force labels stand for magnitudes and in which explicit positive and negative signs preceding force labels indicate directions. When using such a notational convention, the separate presentation of the direction and magnitude information in the table above is helpful.