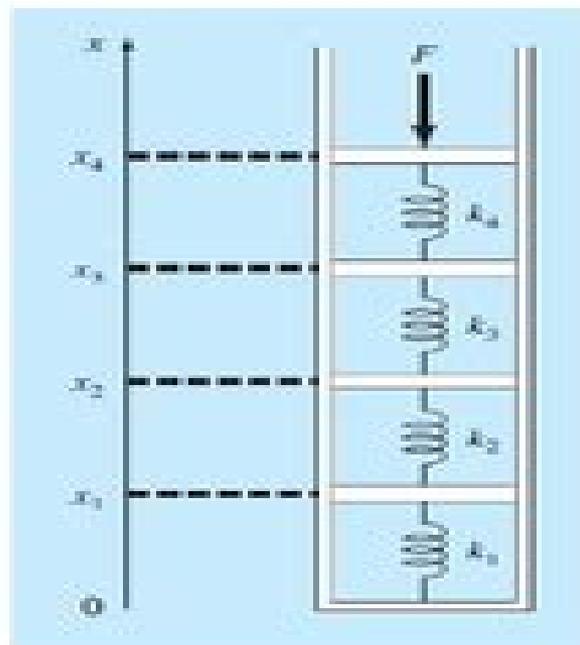


## Question 2:

### Case Studies: Applications of Linear Algebraic Equations (Mechanical Engineering)

#### SPRING-MASS SYSTEMS

Idealized spring-mass systems have numerous applications throughout engineering. Figure below shows an arrangement of four springs in series being depressed.



At equilibrium, force-balance equations can be developed defining the interrelationships between the springs.

$$k_2(x_2 - x_1) = k_1 x_1$$

$$k_3(x_3 - x_2) = k_2(x_2 - x_1)$$

$$k_4(x_4 - x_3) = k_3(x_3 - x_2)$$

$$F = k_4(x_4 - x_3)$$

where the  $k$ 's are spring constants. If  $k_1$  through  $k_4$  are 100, 50, 80, and 200 N/m, respectively and with a force of 14,700N.

Refer to your answer in Question 1.

**Task:** Formulate the force-balance equations in matrix  $Ax=B$  form applying the given spring constants and force.

# Spring Mass Systems Stephen Murray Answer Key

**Lei Huang**



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