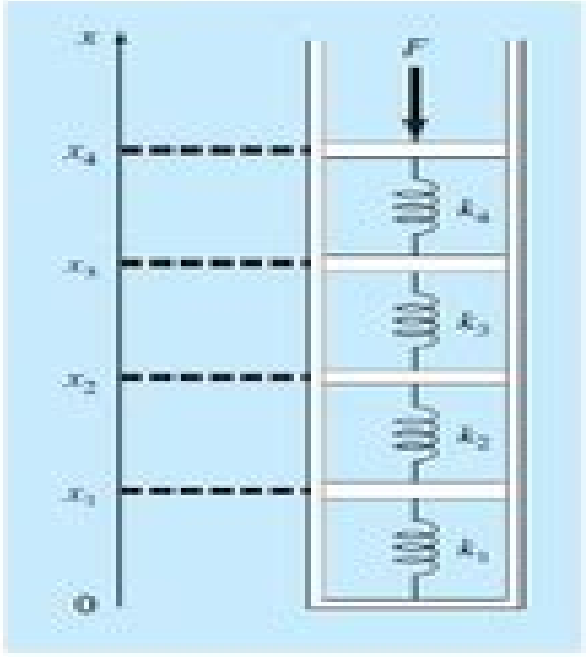
Question 2:

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 k1 through k4 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

Sebastian Brünink

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