

C H A P T E R

5

Applications of Linear Differential Equations

5.1 Vibration of a Single Degree-of-Freedom System

5.1.1 Formulation—Equation of Motion

In this section, the vibration of a single story shear building as shown in Figure 5.1, which is considered as a model of a single degree-of-freedom (DOF) system, is studied.

A single story shear building consists of a rigid girder with mass m , which is supported by columns with combined stiffness k . The columns are assumed to be weightless, inextensible in the axial (vertical) direction, and they can only take shear forces but not bending moments. In the horizontal direction, the columns act as a spring of stiffness k . As a result, the girder can only move in the horizontal direction, and its motion can be described by a single variable $x(t)$; hence the system is called a single degree-of-freedom (DOF) system. The number of degrees-of-freedom is the total number of variables required to describe the motion of a system.

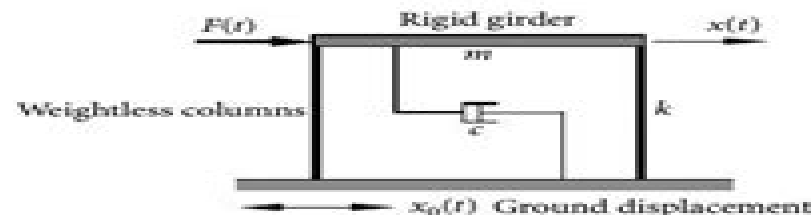


Figure 5.1 A single-story shear building.

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