

## **FIGURE 10-11**

Lumped parameter models of an overhead valve engine cam-follower system

<sup>†</sup>10-28 The rocker in Figure 10-11a (p. 547) has the following dimensions: a = 50.8 mm, b = 76.2 mm. Its total weight is 10.1 N and, when supported on knife-edges at *A* and *B*, the weights at the supports were found to be 4.3 N and 5.8 N, respectively. The rocker was supported at its pivot point with a low-friction ball bearing and the period of oscillation was found to be 0.75 sec. What is the approximate moment of inertia of the rocker with respect to its pivot axis?

<sup>&</sup>lt;sup>†</sup> These problems are suited to solution using *Mathcad*, *Matlab*, or *TKSolver* equation solver programs.