

of acceleration or jerk. This will lead to surging and premature failure of metallic coil valve-springs, and a tendency for instabilities in the motion of cam mechanisms with low elastic stiffness such as those involving push-rods. At very high camshaft speeds, even stiff mechanisms with pneumatic valve springs can have a tendency to behave in an unstable manner, if there are significantly large values of jerk. There is also insufficient flexibility to permit the designer to optimise his design, and the use of a section which is a quarter sine-wave will not allow the energy stored in the spring to be used efficiently to maintain contact between follower and cam; this limits the maximum engine speed that can safely be used before contact is lost between cam and tappet.

By considering each section in turn the equation for the acceleration is integrated twice and the constants of integration determined from the initial boundary conditions for each section.

Constant Acceleration Ramp. $0 \leq t \leq T_0$, $0 \leq T \leq T_0$

With notation of Fig. 2.1:

Integrating Eq. (2.1) twice w.r.t. t :

$$\ddot{s} = A_0 \quad (2.1)$$

$$\dot{s} = A_0 t \quad (2.2)$$

$$s = \frac{A_0 t^2}{2} \quad (2.3)$$

At $t = T_0$:

$$\ddot{s} = \ddot{s}_0 = A_0 \quad (2.4)$$

$$\dot{s}_0 = A_0 T_0 \quad (2.5)$$

$$s = s_0 = \frac{A_0 T_0^2}{2} \quad (2.6)$$

Hence:

$$A_0 = \frac{2s_0}{T_0^2} \quad (2.7)$$

As s_0 and T_0 are specified by the designer, A_0 can be determined.

Linearly Increasing Acceleration. $T_0 \leq t \leq T_1$, $T_0 \leq T \leq T_1$

$$\ddot{s} = A_0 + \frac{(A - A_0)t}{T_1} \quad (2.8)$$

Integrating Eq. (2.8) twice w.r.t. t :

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Jicheng Xie



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