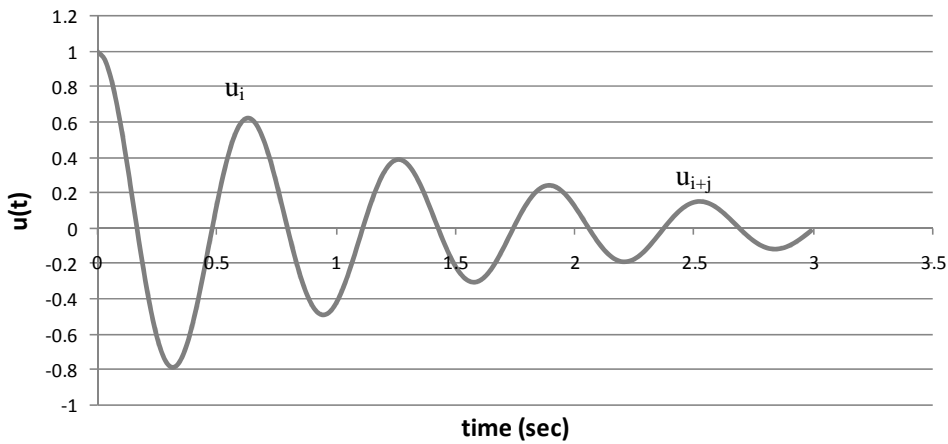


۱. نمودار پاسخ ارتعاش آزاد سیستم



۲. معادله تعیین میرایی

$$\xi = \frac{1}{j} \cdot \frac{1}{2\pi} \ln\left(\frac{u_i}{u_{i+j}}\right) \quad \text{یا} \quad \xi = \frac{1}{j} \cdot \frac{1}{2\pi} \ln\left(\frac{\ddot{u}_i}{\ddot{u}_{i+j}}\right)$$

۳. مرجع

Dynamic of Structures, Theory and Application to Earthquake Engineering, Anil K. Chopra, Prentice Hall Inc, 1995.