



中国地震局部门计量检定规程



[illegible]

$$S=\frac{V}{v}$$

$$S$$

$$V$$

$$v$$

$$e=\frac{(S-S_0)}{S_0}\times 100\%$$

$$e$$

$$S$$

$$S_0$$

$$e_i=\frac{S_i-S}{S}\times 100\%$$

$$e_i$$

$$S_i$$

$$S$$

$$v_i$$

$$V_i$$

$$V_i=V_0+K\times v_{\mathrm{i}}$$

$$V_i$$

$$v_i$$

$$K$$

$$V_o$$

$$l = \frac{\max\{|V_i - V_{i'}|\}}{FS} \times 100\%$$

V_i

$V_{i'}$

FS

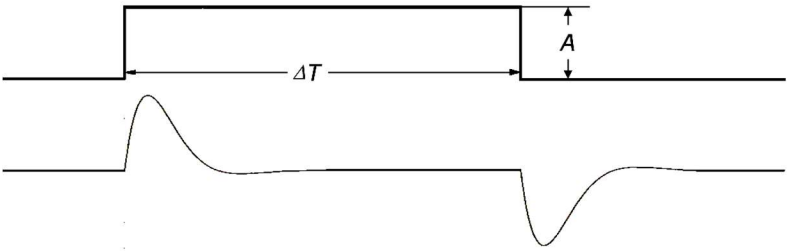
$$\text{TSR} = \frac{S_T}{S} \times 100\%$$

TSR

S_T

S

TSR



$$x_i(i=0\quad 1\quad \cdots\quad N-1)$$
$$0.02f_s$$
$$x_{\min}$$

$$(x_{\max}-x_{\min})/2$$

$$f_s$$
$$x_i$$
$$x_{\max}$$
$$(x_{\max}-x_{\min})/\sqrt{8}$$

$$x_i(i=0\quad 1\quad \cdots\quad N-1)$$
$$0.1f_s$$

$$f_s$$

$$x_0(t)=A_0\sin(\omega_0t+\varphi_0)+d_0$$
$$\rho=\frac{1}{N}\sum_{i=0}^{N-1}[x_i-A_0\sin(i\omega_0T_s+\varphi_0)-d_0]^2$$

$$T_s$$
$$\omega_0$$
$$A_0/\sqrt{2}$$

$$A_0\quad \omega_0\quad \varphi_0\quad d_0$$
$$\omega_0/(2\pi)$$

$$\rho$$
$$A_0$$

$$x_n(n=0\quad 1\quad \cdots\quad N-1)$$
$$k=Nf_0/f_s$$

$$f_s$$

$$f_0$$

$$A_0=\frac{2}{N}|X(k)|=\frac{2}{N}|\sum_{n=0}^{N-1}x_ne^{-j2\pi nf_0/f_s}|$$
$$A_0/\sqrt{2}$$

$$H(s) = \frac{S_0 s^2}{s^2 + 2D\omega_0 s + \omega_0^2}$$

$$\begin{cases} y(t) = \frac{S_0 S_C I_C}{\omega_0 \sqrt{1-D^2}} e^{-D\omega_0 t} \sin(\sqrt{1-D^2}\omega_0 t) \cdot u(t), & D < 1 \\ y(t) = S_0 S_C I_C t e^{-\omega_0 t} \cdot u(t), & D = 1 \\ y(t) = \frac{S_0 S_C I_C}{\omega_0 \sqrt{D^2-1}} e^{-D\omega_0 t} \operatorname{sh}(\sqrt{D^2-1}\omega_0 t) \cdot u(t), & D > 1 \end{cases}$$

$$\begin{matrix} x_n & T_0 \\ \left\{ \begin{array}{l} y(nT_0) = A_0 e^{-D\omega_0(n-n_0)T_0} \sin[\sqrt{1-D^2}\omega_0(n-n_0)T_0] , \quad D < 1 \\ y(nT_0) = A_0(n-n_0)T_0 e^{-\omega_0(n-n_0)T_0}, \quad D = 1 \\ y(nT_0) = A_0 e^{-D\omega_0(n-n_0)T_0} \operatorname{sh}[\sqrt{D^2-1}\omega_0(n-n_0)T_0] , \quad D > 1 \end{array} \right. \end{matrix}$$

$$\rho = \frac{1}{N} \sum_{i=0}^{N-1} [x_n - y(nT_0) - d_0]^2$$

$$A_0 \quad n_0 \quad d_0$$

$$\rho$$

$$A_0 \quad n_0 \quad d_0$$

$$f_s$$

$$X_i(k)$$

$$X_i(k) = \frac{1}{N} \sum_{n=0}^{N-1} x_i(n)w(n)e^{-j2\pi k / N}$$

$$x_i(n)$$

$$w(n)$$

$$\hat{P}(k) = \frac{4N^2}{M \sum_{n=0}^{N-1} w^2(n)} \sum_{i=0}^{M-1} |X_i(k)|^2, \quad k = 0,1,2, \cdots, \frac{N}{2} - 1$$

$$f_k = \frac{kf_s}{N} \quad (k = 0,1,2, \cdots, \frac{N}{2} - 1)$$

$$P(f_k) = \frac{N}{f_s} \hat{P}(k)$$

$$\begin{array}{cccccccccccc} & & & & & & x(t) & & & & & \\ n_1(t) & n_2(t) & & & H_1(f) & H_2(f) & & & y_1(t) & y_2(t) & & \\ X(f) & N_1(f) & N_2(f) & Y_1(f) & Y_2(f) & x(t) & n_1(t) & n_2(t) & y_1(t) & y_2(t) & & \\ & & P_{12}(f) & y_1(t) & y_2(t) & & & & & & & \end{array}$$

$$\begin{aligned} Y_1(f) &= [X(f) + N_1(f)]|H_1(f)|^2 \\ Y_2(f) &= [X(f) + N_2(f)]|H_2(f)|^2 \end{aligned} \tag{2}$$

P

$$N_{ii} = \frac{1}{|H|}$$

$$\sigma \quad \sigma/\overline{r_s} \qquad \overline{r_s} \qquad r_s(i) \qquad \overline{r_s} \qquad \overline{r_s}$$
