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**Technical specifications and test procedures for water quality on-line  
automatic monitoring equipment of chemical oxygen demand COD<sub>Cr</sub>**

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o%Λ(s)

$$n \qquad \qquad S \qquad \qquad LOQ$$

$$S = \sqrt{\frac{1}{n} \sum_{i=1}^n \left( x_i - \bar{x} \right)^2}$$

$$LOQ = \quad \times S$$

$$\begin{matrix} S & & n \\ & n \\ x_i & i & \mathsf{PJ} \\ \overline{x} & & \end{matrix}$$

$$LOQ$$

$$n \quad n \qquad \qquad n \quad n$$

$$S$$

$$S = \sqrt{\frac{1}{n-1} \sum_{i=1}^n \left( x_i - \bar{x} \right)^2} \times$$

$$R\quad \quad R$$

$$RD$$

$$RD - \frac{\sum\limits_{i=1}^n |R_i-R|}{nR}$$

$$RD$$

$$R\qquad \qquad i$$

$$R$$

$$R$$

$$n$$

$$\boldsymbol{T}$$

$$T-x-\frac{x\quad x\quad x\quad x\quad x\quad x}{ }$$

$$T$$

$$x\qquad i$$

$$V$$

$$V\qquad V\qquad V$$

$$V-\frac{V-V}{V}$$

$$V$$

$$V$$

$$V$$

$$\begin{array}{c} D \\ D \\ D \end{array}$$

$$D-\frac{D-D}{D}$$

$$\Delta D$$

$$D$$

$$D$$

$$\boldsymbol{C}$$

$$C\qquad\qquad C\qquad\qquad T$$

$$\Delta T = \frac{C-C}{C}\times\quad\%\\$$

$$\Delta T$$

$$C\qquad t$$

$$C$$

$$\begin{array}{cc} n & n \\ n' & n' \end{array} \qquad \begin{array}{c} X \\ n' \end{array} \qquad \begin{array}{c} \overline{B} \\ \overline{A} \end{array}$$

$$\overline{A}=\frac{\sum\limits_{i=1}^n\left|X_i-\overline{B}\right|}{n\overline{B}}\times$$

$$\overline{a}$$

$$\overline{a}=\frac{\sum\limits_{i=1}^n\left|X_i-\overline{B}\right|}{n}$$

$$\begin{array}{ccc}\frac{\overline{A}}{\overline{a}} & & i \\ \frac{X}{\overline{B}} & & \\ n & & i \\ i & & \end{array}$$

$$D=\frac{D_e}{D_t} \times$$

$$\begin{array}{c} D \\ D_e \\ D_t \end{array}$$

$$\begin{array}{ccccc} & & C & & i \\ & j & & j & \\ S & & S & & S \\ & & & & \\ S & = & \frac{\sqrt{n-\sum\limits_{i=1}^n\left(C_{i\;j}-\frac{1}{n}\sum\limits_{i=1}^nC_{i\;j}\right)}}{-\sum\limits_{i=1}^nC_{i\;j}} \times & & \\ & & \left|\begin{array}{|c|} \hline \diagup & \diagdown \\ \hline \end{array}\right| & & \end{array}$$

*n*  
*m*  
 $C_{i,j}$       *i*      *j*      *i,j*      *i*      *n*    *j*      *m*  
 $S$                 *j*  
 $S$

*n*    *n*

$S_r$

*R*      *R*

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