

# 1    Wzory matematyczne

$$\sqrt{\frac{2^n}{2_n}} \neq \sqrt[\frac{1}{2}]{1+n}$$

$$\frac{2^k}{2^{k+2}}$$

$$\frac{x^2}{2^{(x+2)(x-2)^3}}$$

$$\log_2 2^8 = 8$$

$$\sqrt[3]{e^x - \log_2 x}$$

$$\lim_{x\rightarrow\infty}\sum_{k=1}^n\frac{1}{k^2}=\frac{\pi^2}{6}$$

$$\int_2^\infty \frac{1}{\log_2 x} dx = \frac{1}{x} \sin x = 1 - \cos^2(x)$$

$$\left[\begin{array}{cccc} a_{11} & a_{12} & \ldots & a_{1K} \\ a_{21} & a_{22} & \ldots & a_{2K} \\ \vdots & \vdots & \ddots & \vdots \\ a_{K1} & a_{K2} & \ldots & a_{KK} \end{array}\right] * \left[\begin{array}{c} x_1 \\ x_2 \\ \vdots \\ x_K \end{array}\right] = \left[\begin{array}{c} b_1 \\ b_2 \\ \vdots \\ b_K \end{array}\right]$$

$$(a_1=a_1(x))\wedge (a_2=a_2(x))\wedge \ldots \wedge (a_k=a_k(x))\Rightarrow (d=d(u))$$

$$[x]_A = \{y \in U : a(x) = a(y), \forall a \in A\}, \text{ where the control object } x \in U$$

$$T:[0,1]\times[0,1]\longrightarrow[0,1]$$

$$\lim_{x\rightarrow\infty}exp(-x)=0$$

$$\frac{n!}{k!(n-k)!}=\binom{n}{k}$$

$$P\bigg(A=2\bigg|\frac{A^2}{B}>4\bigg)$$

$$S^{C_i}(a)=\frac{(\bar{C}_i^a)-\hat{C}_i^a)^2}{Z_{\bar{C}_i^{a^2}}+Z_{\hat{C}_i^{a^2}}},a\in A$$