$$\overline{\mathcal{J}}(x,y,z) = A(x)B(y)C(z)$$

$$A(0) = 0$$
 $B(0) = 0$ $C(0) = 0$

$$A(\alpha) = 0 \qquad \beta(b) = 0 \qquad C(c) = 0$$

$$\Delta \bar{J} = 0 \qquad \frac{1}{A} \frac{J^2}{Jx^2} A + \frac{1}{B} \frac{J^2}{Jy^2} B + \frac{1}{C} \frac{J}{dz^2} C = 0$$

$$\frac{d^2}{dx^2}A - dA = 0$$

$$d = 0$$

$$d = 0$$

$$A = a_1 \sin(\sqrt{dx}x) + a_2 \cos(\sqrt{dx}x)$$

$$d = 0$$

$$A = a_1 + a_2 x$$

ulla
$$d = 0$$
 $A(0) = A(\alpha) = 0 \Rightarrow A = 0$, ale vierly $\phi(x, y, c) = 0 \pm V$

olla
$$d>0$$
 $A(0)=0 \Rightarrow a_2=0$ $A(\alpha)=0=a_n \sinh(\sqrt{a}\alpha)$ sprzeczne

vize
$$d < 0$$
 $A(0) = 0 \Rightarrow a_2 = 0$

$$A(\alpha) = 0 = \alpha_{1} \operatorname{sin}(\operatorname{sid}(\alpha)) = 0 \Rightarrow \operatorname{sid}(\alpha = n \operatorname{sid}(\alpha)) = 0$$

Poulobnie dla B:
$$0 > \beta = -\frac{|k^2 |^2}{b^2}$$

$$d+\beta+J=0$$
 $J=-d-\beta=\frac{m^2\sqrt{1}^2}{a^2}+\frac{|c^2\sqrt{1}^2|}{b^2}>0$

$$C = c_1 \sinh(\sqrt{2}z) + c_2 \cosh(\sqrt{2}z) \qquad C(0) = 0 \Rightarrow c_2 = 0$$

$$A = \alpha_n \sin\left(\frac{n\pi}{a}x\right)$$

$$B = b_K \sin\left(\frac{|x|}{b}x\right)$$

$$C = c_{nk} \sinh\left(\sqrt{\frac{n\pi}{a}}x\right)^2 + (\frac{|x|}{b}x)^2 = 0$$

$$\overline{\phi}(x,y,z) = \sum_{m,k} a_m \sin\left(\frac{n\pi}{a}x\right) b_k \sin\left(\frac{k\pi}{b}y\right) c_{mk} \sinh\left(\sqrt{a}x + (\frac{k\pi}{b})^2 + (\frac{k\pi}{b})^2\right)$$

$$\phi(x,y,c) = V = \sum_{m,k} D_{mk} \tilde{n} n \left(\frac{n\pi}{a} x \right) \tilde{n} n \left(\frac{|k|}{b} \right) \tilde{n} n h \left(\sqrt{\frac{m}{a}} \right)^2 + \left(\frac{|k|}{b} \right)^2 \tilde{n} c \right)$$

$$\int_{0}^{\infty} dx \int_{0}^{\infty} dy \, \sqrt{\sin\left(\frac{n'\sqrt{1}}{\alpha}x\right)} \sin\left(\frac{n'\sqrt{1}}{\alpha}x\right)} = \int_{0}^{\infty} dx \int_{0}^{\infty} dy \int_{0}^{\infty} \sin\left(\frac{n'\sqrt{1}}{\alpha}x\right) \sin\left(\frac{n'\sqrt{1}}{\alpha}x\right)$$

$$\int_{0}^{\infty} dx \int_{0}^{\infty} dy \, \sqrt{\sin\left(\frac{n'\sqrt{1}}{\alpha}x\right)} \sin\left(\frac{n'\sqrt{1}}{\alpha}x\right) \sin\left(\frac{n'\sqrt{1}}{\alpha}x\right)$$

$$V = \sum_{m,k} D_{mk} =$$

$$D_{nk} = \frac{76 \text{ V}}{57^2 \text{ nk}} \operatorname{csch}\left(\sqrt{\frac{n}{n}}\right)^2 + \left(\frac{1}{6}\right)^2 51c\right)$$

$$\overline{\psi}(x,y,z) = \underbrace{\sum_{n \mid k} \frac{76 \text{ V}}{51^2 \text{ n k}} \operatorname{csch}(\sqrt[n]{a})^2 + \binom{k}{b}^2 \operatorname{sic}) \operatorname{sin}(\frac{n\pi}{a}x) \operatorname{sin}(\frac{k5}{b}y) \operatorname{sinh}(\sqrt[n]{a})^2 + \binom{k}{b}^2 \operatorname{sic})$$

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