	薄板弯曲问题的双三角级数解(附带例题)
1	Wednesday, September 20, 2023 11:35 AM D. J. A. J.
	由于边界边件为:
	$X=Q \not \sim X=Q \not \downarrow , W=Q, \frac{\partial^2 w}{\partial x^2}=0$
	$y = 0 \text{ for } y = b \text{ for } w = 0, \frac{\partial^2 w}{\partial x^2} = 0$
	统取下到 自然满足级数解:
	$\times \mathbb{T}^{\infty}$
	W= Sin Min Sin MIX Sin MIX G Sin NIX G Sin NIX
	(t): \(\tau = \frac{1}{2}, \tau\);
	$\int \int \frac{dx}{dx} = \int \frac{dx}{dx} + \int \frac{dx}{dx} = \int \frac{dx}{dx} $
	比图·特古伊展开, 20 m m m m m m m m m m m m m m m m m m
	HUT, ASTRUMA, $Q(xy) = \sum_{m=1}^{\infty} \sum_{n=1}^{\infty} Q_{mn} Sin \frac{n\pi y}{a}$ $Sin \frac{n\pi y}{b}$
	THE SINTY => THE TWINTY AND THE SINTY => THE
	$\frac{2}{2} \left(\sum_{n} \frac{n\pi x}{n} \right) = \frac{2}{2} \left(\sum_{n} \frac{n\pi x}{n} \right) \frac{1}{2} \left(\frac{\pi x}{n} \right)$
	((ス,y) 0:10 Q (mn m=1 n=1) (mn m=1) (mn m=1) (mn m=1) (mn m=1 n=1) (mn m=1) (mn m=1) (mn m=
	(产基本级分表) (由于 ; sin mx sin nx = so m≠n 次); 下下, ab (
	$\int_{a}^{a} \left(G(x,y) \frac{1}{\sin^{\frac{1}{2}} x} \frac{1}$
	Job Jerzin John Jerzin
	$\int_{0}^{a} \int_{0}^{a} \frac{g(x,y)}{g(x,y)} \frac{\sin \frac{n\pi x}{a} \sin \frac{n\pi y}{b}}{\sin \frac{n\pi x}{a} \sin \frac{n\pi y}{b}} dxdy = \frac{ab}{4} \lim_{n \to \infty} \frac{ab}$
	又:比较上式 ①②的 系数: 有: $ \frac{q_{mn}}{q_{2}} + \frac{q_{2}}{p_{2}} \Rightarrow A_{mn} = \frac{q_{mn}}{q_{2}} + \frac{q_{2}}{p_{2}} $
	$C_{mn} = D + A_{mn} \left(\frac{N}{\alpha^2} + \frac{1}{b^2} \right) \Rightarrow A_{mn} = \frac{1}{14} \cdot \left(\frac{m^2}{m^2} + \frac{1}{b^2} \right)^2$
	$W(x,y) = \sum_{m=1}^{\infty} \frac{2}{n+1} \frac{\sqrt{m^2 + n^2}}{\sqrt{n^2 + n^2}} \sin \frac{m\pi x}{a} \sin \frac{n\pi y}{b} \qquad (2-3) In the Enterty of the Ente$
	$\frac{W(x,y)-\sum_{m=1}^{\infty}\sum_{n\geq 1}\frac{1}{1}4D\left(\frac{m^2}{6^2}+\frac{n^2}{5^2}\right)}{a}$
	(一般情况)、
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	例、四边形筒支矩形变物布载荷园;
	q(x,y)=9, H.H.: 9mn= 4 59 fb q(x,y) sin mix a sin nix dxdy
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