取Um=Aeilut-兴(ma)] Umi-Beilut-兴(mi)a] $\int m u_{2n+1} = \beta \left(U_{2n+1} - U_{2n} \right) - \beta \left(U_{2n} - U_{2n-1} \right)$ $\int m u_{2n+1} = \beta \left(U_{2n+2} + U_{2n} \right) - 2\beta U_{2n+1}$ -23 Cos (219) 北海省 $\{(2\beta-mw^2)A - 2\beta(0) \le \frac{2\pi a}{\lambda}B = 0$ $2\beta(0) \le \frac{2\pi a}{\lambda}A - (2\beta-mw^2)B = 0$ 2BC05 229 -(2B-Mw2)=0 $W^{2} = \frac{m+M}{mM} \beta \left[\frac{l+M}{l+M} \right] + \frac{l+mM}{(m+M)^{2}} sin(\frac{2\pi q}{N})$ $k = \sqrt{\frac{2\pi}{\alpha}} = \frac{2\pi}{N}, l=1...N$:振劲模式共2小个,加二州时 W2= 品(Hcoska)= 监cos2ka

编翰 mw-11c ceieq tloce = 1eq $\frac{dr^{2}}{dr^{2}} + \frac{2dq^{2}}{r^{3}} + \frac{h(uti)\beta}{r^{3}} = (n-1)\frac{dq^{3}}{r^{5}}$ $f = \frac{1}{27} = \frac{1}{27} \sqrt{\frac{1}{\mu} \frac{d^2 u_r}{dr^2}} = \frac{1}{27} \sqrt{\frac{(h+1) \frac{m+M}{mM}}{\frac{d^2}{r^3}}} = 1.32 \times 10^8 \text{Hz}$ 2) d==2.27m2>6/Mm