对十一.

$$f(\eta) = \psi(-\frac{1}{2a}) - g(0)$$

$$g(\eta) = \phi(\frac{h}{a}) - \psi(\frac{h}{2a}) + g(0)$$

:.
$$u(x,+)=\psi(\xi-\frac{x}{2a})+\phi(\frac{xtat}{a})-\psi(\frac{xtat}{2a})$$

2 取投拉氏变技 L[4 (x,+)]= U(x,5). (x,5) a2(x,5) - SU=0 U(0,5) = 5 U(x,0)=0 面解为 U(x,s)= Cie 由有界段 G=0 U[0,5]= G = 5 =, v(x,s)= 50 - 5x U(x,+)=U0 * 20 to+2 取拉厂港变换

文作批发 L[u'x,+)] = U(x) $a^{2}\frac{d^{2}U}{ds^{2}} - s^{2}U = 0$ $U(x,s) \leq M$ $U(x,s) \leq M$ 通衡 Ulxs)= Cie xx+ Cie-xx 由解 Ci=0 1 U(0,5)= Cz = Stywz 4 U(X,9= AW . C XX · Ux,+)= A sinus(t-茶) (t>卷) Julx/t) (Asinw(t-a) t>a.