老人儿 1- F(4)= 100 +(x) eilx dx 人理想活的振动方程: ナレメンニラデーに発生コトイルのーンパはん $\frac{\partial^2 u}{\partial t^2} = \alpha^2 \frac{\partial^2 u}{\partial x^2} + f(t, x).$ $a = \sqrt{\frac{T}{P}}, f(t, x) = \frac{g(t, x)}{P}$ 2. F[+(x)eihox]=F(A+10) 2、热行导方程: F[+(x+a)]=F(1) end au = a2 su+ cp f(t, x, y, z). $F[H(\alpha x)] = dF(d)$ $a = \sqrt{\frac{R}{CP}}$ 3、扩散方程: 部= a²ΔョU. α=√0, D>0是扩散系数=[(x)(^)+]= 3- F「でなり=気で一番 4、场势方程: △9=-号 $\int_{u_{0},x}^{\infty} \left\{ u_{t} = \alpha^{2} u_{xx} \left(-\infty \langle x < +\infty, t > 0 \right) \right\} = \left[\frac{1}{2} (-\infty) \left(-\infty \langle x < +\infty \rangle \right) \right] = \left[\frac{1}{2} (-\infty) \left(-\infty \langle x < +\infty \rangle \right) \right] = \left[\frac{1}{2} (-\infty) \left(-\infty \langle x < +\infty \rangle \right) \right] = \left[\frac{1}{2} (-\infty) \left(-\infty \langle x < +\infty \rangle \right) \right] = \left[\frac{1}{2} (-\infty) \left(-\infty \langle x < +\infty \rangle \right) \right] = \left[\frac{1}{2} (-\infty) \left(-\infty \langle x < +\infty \rangle \right) \right] = \left[\frac{1}{2} (-\infty) \left(-\infty \langle x < +\infty \rangle \right) \right] = \left[\frac{1}{2} (-\infty) \left(-\infty \langle x < +\infty \rangle \right) \right] = \left[\frac{1}{2} (-\infty) \left(-\infty \langle x < +\infty \rangle \right) \right] = \left[\frac{1}{2} (-\infty) \left(-\infty \langle x < +\infty \rangle \right) \right] = \left[\frac{1}{2} (-\infty) \left(-\infty \langle x < +\infty \rangle \right) \right] = \left[\frac{1}{2} (-\infty) \left(-\infty \langle x < +\infty \rangle \right) \right] = \left[\frac{1}{2} (-\infty) \left(-\infty \langle x < +\infty \rangle \right) \right] = \left[\frac{1}{2} (-\infty) \left(-\infty \langle x < +\infty \rangle \right) \right] = \left[\frac{1}{2} (-\infty) \left(-\infty \langle x < +\infty \rangle \right) \right] = \left[\frac{1}{2} (-\infty) \left(-\infty \langle x < +\infty \rangle \right) \right] = \left[\frac{1}{2} (-\infty) \left(-\infty \langle x < +\infty \rangle \right) \right] = \left[\frac{1}{2} (-\infty) \left(-\infty \langle x < +\infty \rangle \right) \right] = \left[\frac{1}{2} (-\infty) \left(-\infty \langle x < +\infty \rangle \right) \right] = \left[\frac{1}{2} (-\infty) \left(-\infty \langle x < +\infty \rangle \right) \right] = \left[\frac{1}{2} (-\infty) \left(-\infty \langle x < +\infty \rangle \right) \right] = \left[\frac{1}{2} (-\infty) \left(-\infty \langle x < +\infty \rangle \right) \right] = \left[\frac{1}{2} (-\infty) \left(-\infty \langle x < +\infty \rangle \right) \right] = \left[\frac{1}{2} (-\infty) \left(-\infty \langle x < +\infty \rangle \right) \right] = \left[\frac{1}{2} (-\infty) \left(-\infty \langle x < +\infty \rangle \right) \right] = \left[\frac{1}{2} (-\infty) \left(-\infty \langle x < +\infty \rangle \right) \right] = \left[\frac{1}{2} (-\infty) \left(-\infty \langle x < +\infty \rangle \right) \right] = \left[\frac{1}{2} (-\infty) \left(-\infty \langle x < +\infty \rangle \right) \right] = \left[\frac{1}{2} (-\infty) \left(-\infty \langle x < +\infty \rangle \right) \right] = \left[\frac{1}{2} (-\infty) \left(-\infty \langle x < +\infty \rangle \right) \right] = \left[\frac{1}{2} (-\infty) \left(-\infty \langle x < +\infty \rangle \right) \right] = \left[\frac{1}{2} (-\infty) \left(-\infty \langle x < +\infty \rangle \right) \right] = \left[\frac{1}{2} (-\infty) \left(-\infty \langle x < +\infty \rangle \right) \right] = \left[\frac{1}{2} (-\infty) \left(-\infty \langle x < +\infty \rangle \right) \right] = \left[\frac{1}{2} (-\infty) \left(-\infty \langle x < +\infty \rangle \right) \right] = \left[\frac{1}{2} (-\infty) \left(-\infty \langle x < +\infty \rangle \right) \right] = \left[\frac{1}{2} (-\infty) \left(-\infty \langle x < +\infty \rangle \right) \right] = \left[\frac{1}{2} (-\infty) \left(-\infty \langle x < +\infty \rangle \right) \right] = \left[\frac{1}{2} (-\infty) \left(-\infty \langle x < +\infty \rangle \right) \right] = \left[\frac{1}{2} (-\infty) \left(-\infty \langle x < +\infty \rangle \right) \right] = \left[\frac{1}{2} (-\infty) \left(-\infty \langle x < +\infty \rangle \right) \right] = \left[\frac{1}{2} (-\infty) \left(-\infty \langle x < +\infty \rangle \right) \right] = \left[\frac{1}{2} (-\infty) \left(-\infty \langle x < +\infty \rangle \right) \right] = \left[\frac{1}{2} (-\infty) \left(-\infty) \left(-\infty \langle x < +\infty \rangle \right) \right] = \left[\frac{1}{2} (-\infty) \left(-\infty \langle x < +\infty \rangle \right) \right] = \left[\frac{1}{2} (-\infty) \left(-\infty) \left(-\infty \langle x < +\infty \rangle \right) \right] = \left[\frac{1}{2} (-\infty) \left(-\infty \langle x < +\infty \rangle \right) \right] = \left[\frac{1}{2} (-\infty) \left(-\infty) \left(-\infty \langle x$ => u(t,x)= (x-ot)+Y(x+oxt) + 1 (x+oxt) + (x) d (x) d (x) d (x) d (x) 6、各次化原理1: 这些以代的例;正)满足人)于[[[[[[]]]]]=(图片(X)+ $\begin{cases} \frac{\partial^{2}w}{\partial t^{2}} = Lw & (M \in R^{3}, t > Z) \\ w|_{t=z} = 0, \frac{\partial w}{\partial t}|_{t=z} = \frac{1}{z}(Z,M) & [t] = [\frac{1}{z}(Z,M)] = [$ 见了 132 = Lu+ftがからいデルサイト=[t:山子) 61 242 U= 5. w(t, M; c) d 20 x his (x) + 0 = (h) + (A) -表次化库理2:20位的M;乙烯是加(x)计四) ==(x) $\begin{cases} \frac{2N}{3t} = Lw(M \in \mathbb{R}^3, t > z), \\ w|_{t=z} = f(z, M), - 1 + z = z(t) \\ \frac{2N}{3t} = Lw(M \in \mathbb{R}^3, t > z), \end{cases}$ 二种探封方外是是是 则柯西问题 的解为 u= 5 w (t,M; z) dz (1-9) J=[ths(t)+]]

 $Ch 2 \frac{\partial u}{\partial x} = \frac{\partial u}{\partial r} + \frac{\partial u}{\partial r} + \frac{\partial u}{\partial r} + \frac{\partial u}{\partial r} + \frac{\partial u}{\partial r} = \frac{\partial u}{\partial r} + \frac{\partial u}{\partial$ 3. Jn (x+y) = = [] ln (x) In+x(y). 2 h \(\times_2 u = 0 \(b) 与常变量解的 (\(\text{A}_k r^k + B_k r^k \) ((\(\text{G}_k \text{G}_k \text{B}_k r) \) ((\(\text{G}_k \text{G}_k \text{G}_k \text{B}_k r) \) ((\(\text{G}_k \text{G}_k \text{B} 3. 考虑方程b。(x)y"(x)+b,(x)y'(x)+b,(x)y(x)+1,y(x)=0. $f(x) = \int_{b(x)} e^{\int_{b(x)}^{b(x)} dx}, k(x) = \rho(x)b(x), f(x) = \rho(x)b(x).$ 別方年至可化为 dx (k(x) dx) - 2(x) y + hp(x) y = (x) 1-1 (x 两个假定: 1° k(x), k'(x), p(x)在Ca, b) 住後; x E(a, b) et k(ス) x, p(ス) x, q(x) 30. a,b至为是水化和P(x)内J1级零色。如于)(注)(1) 2°9在(a,b)连续,在端巨处至多少级概点(Hn) n=n(:fill) 当k(a)>0见9在a当连续:一个三类的系统件. k(a)=k(b)>0:周期性的系统体:"5"(X)别:在对考察等上的数据。 2° Ym(x)和以在(a) 在 Carb) 带规户(x) 证金。即分为(x)外(x)外(x)=0. 2° $y_m(x) \neq_0 y_n(x) \neq_1 (x)$ 3° $i\hat{x} + (x) = \sum_{n=1}^{\infty} f_n y_n(x), \ xy \neq_k = \frac{1}{11 \times (x)} \int_{a}^{\infty} p(x) + (x) y_k(x) dx$ 11 /k (x)112 = Sp P(x) /k (x) dx. (x) 1+1 ch3. 1. xy x2y"+ xy'+(x2v2) y=0 ((v26) 6) 6) (1) =(n, m) + Ss } 1° v & Z pt, y(x) = C, J, (x)+, G, J, (x) = (n, m) + NEN 0+, y= C,), (x)+aN,(x). 0=xb(x), o, ton 12 $J_{V}(x) = \sum_{k=0}^{\infty} (+)^{k} \frac{1}{k! \lceil (k+v+1) \rceil} \left(\sum_{k=0}^{\infty} (+)^{2k+v} \sum_{k=0}^{\infty} (+)^{k} \frac{1}{k! \lceil (k+v+1) \rceil} \left(\sum_{k=0}^{\infty} (+)^{2k+v} \sum_{k=0}^{\infty} (+)^{k} \frac{1}{k! \lceil (k+v+1) \rceil} \left(\sum_{k=0}^{\infty} (+)^{2k+v} \sum_{k=0}^{\infty} (+)^{k} \frac{1}{k! \lceil (k+v+1) \rceil} \left(\sum_{k=0}^{\infty} (+)^{2k+v} \sum_{k=0}^{\infty} (+)^{k} \frac{1}{k! \lceil (k+v+1) \rceil} \left(\sum_{k=0}^{\infty} (+)^{2k+v} \sum_{k=0}^{\infty} (+)^{2k$ Nv(x)= Jv(x)ant-J-v(x) (x) of n) = (x)+ \$2.01 个(主)=「开,

2. $J_{n}(x+y)$ = $\sum_{n=\infty}^{\infty} J_{n}(x)y^{n}$

 $J_{n}(x) = \frac{1}{2\pi} \int_{0}^{2\pi} G_{s}(x \sin \theta - n\theta) d\theta = \frac{1}{2\pi} \int_{-\pi}^{\pi} \frac{e^{x} p \{i(x \sin \theta - n\theta)\} d\theta}{2\pi} d\theta$ $J_{n}(x + y) = \int_{0}^{2\pi} J_{k}(x) J_{n+k}(y)$ 3. Jn (x+y) = = Jx (x) Jn+(y) 考虑方種も(ス)ッツ(ス)+り(ス)ッツ(ス)+り(ス)ッツ(ス)+ハッ(ス)ッツ、ストハッツ、ストハッツ、ストハッツ、ストハッシュス) の (ス)= かんな) の (ス) = かんの e (ス) $\begin{cases} J_{\nu-1}(x) + J_{\nu+1}(x) = \frac{2\nu}{x} J_{\nu}(x) \\ J_{\nu-1}(x) - J_{\nu+1}(x) = 2J_{\nu}(x), \\ J_{\nu}(x) - J_{\nu+1}(x) = 2J_{\nu}(x). \end{cases}$ 10 年(20),自1000年[17] 安全高。在大阪中中大大工业代表之上的中心。1010年 →0.0,6至多是上的中户(2010年1至是 0+>1(1±)11] 63/17: In=n(n+), yn(x)=d(x2-1)n=(nEN), 就到(6,0) 元中 C 事が上事後多及式: Pn(x)=2":n! dxで(x=1) [日:0<(d) s=(の) s 2° / (x) for fill for (x) = (x) = (x) = (x) = (x) = (x) my (x) my ° (x) = (x) = (x) / (x) $\begin{cases} n P_{n-1}(x) - x P_{n}(x) + P_{n-1}(x) = 0 \\ n P_{n-1}(x) - P_{n}(x) + x P_{n-1}(x) = 0 \\ P_{n+1}(x) - P_{n-1}(x) = (2n+1)P_{n}(x) = 11(x) \\ x = 1$ 8. 22 f(m, n)= so! x Pa(x)dx, PV = y (2v-x)+ yx + "y" x = y= + (m, n) = m+n++ (m=1,+n=1) 1 = (x) + (ta =) 1 2/not, 5' P. 6) dx=0. (x) M D+(x) (D=V, to V) 10. 22 +(x) = 5 Cn Pn(x) (x) (x) (x) (x) (x) (x) (x) PM Cn = 2n+1 50 f(x) Pn(x) dx 1-x + 5- g. or) =(x) $\bigcap \left(\frac{1}{2} \right) = \int \overline{\Pi}$.

ch 4. 1、手至想3度后战辰三分方程 1- F[+]= 500 +(x) eixx dx (xif) ++ 1/6 = 0 = 2/6 f(x)= IT South F(A) e-idxd1. a= /=, +(6, x= 9(6,x) 2、整件与方程: 2. F[+(x)eidox]=f(1+10) (81,4x 9)+ 4+ ND= 100 11/8). F[+(x+a)]=F(1)eina $F[f(ax)] = \frac{1}{a}F(\frac{1}{a}).$ 8/50 3、扩散方程: 第二024.00元的, Dx选到教练到=[(x)(**+]] 3. F[e-ax]=原e-益 -=中山: 张大笑歌, A $F[e] = \frac{1}{2\sqrt{\pi \alpha}} e^{-\frac{x^2}{4\alpha}} \qquad (octos+>x> \infty-) = 1$ $F[e] = \frac{1}{2\sqrt{\pi \alpha}} e^{-\frac{x^2}{4\alpha}} \qquad (octos+>x> \infty-) = 1$ $F[e] = \frac{1}{2\sqrt{\pi \alpha}} e^{-\frac{x^2}{4\alpha}} \qquad (octos+>x> \infty-) = 1$ $f(x, 1, 2) = \frac{1}{(2\pi)^3} \int \int F(\lambda) \frac{1}{2} \int \frac{1}{2} \int$ $E\left[\frac{94}{3}\right] = -i \left\{ E\left[\frac{9}{4}\right] = -i \left\{ E\left[\frac{9}{4}\right] = -i \left\{ E\left[\frac{9}{4}\right] = -i \left\{ E\left[\frac{9}{4}\right] = -i \left\{ \frac{9}{4}\right\} \right\} \right\} = -i \left\{ \frac{9}{4}\right\} = -i \left\{ \frac{9}{4$ FLD3+] = - (2 + W2+ v2) FLJ + N_ = 10 } $f(x) = \int_{\infty}^{\infty} f(x) \sin \lambda x \, dx = \int_{\infty}^{\infty} f(x) \sin \lambda x \, dx = \int_{\infty}^{\infty} f(x) \cos \lambda x$ 6. (f') = - 1 tc (f') = 1 ts - f(e) (2) f = 3 = 1 m s 二份约到了方红色的 则相面问题 7. $L[t] = \int_{6-\infty}^{\infty} f(t)e^{pt}dt = \int_{6-\infty}^{\infty} (L(p)e^{pt}dp) = \int_{6-\infty$ 8. L[f(t)eht]=L(P-N). (3. M(t) w = = N / IA da L[+(t-z)]= e-Pz L(P). L[+(at)]===F(=) L[+(n)(+)]=pn L(p)-pn-1+(0+)-pn-2+'(0+)m+-...

L [f(t)](m) = L [t] f].

L [st(s)ds] =
$$\frac{L(f)}{p}$$

9. L [e^{ht}] = $\frac{1}{p-1}$

Ch $f^{(n)}$

1. $F(s(x)) = 1$

S $(w(x): f \to (1)^n f^{(n)}(0)$

S $(x) = \frac{1}{2\pi} \int_{-\infty}^{\infty} e^{-hx} d\lambda = \frac{1}{2\pi} \int_{-\infty}^{\infty} exh^{-x} d\lambda$
 $F^{-1}[e^{ihf}] = \delta(x-\xi)$

2. $G(M;Mo) \approx E$
 $\int dx = -\delta(M-Mo), M \in V$
 $\int u|_{\partial V} = 0$

3. $\int du = -f(x, \gamma, E), M \in V$
 $\int u|_{\partial V} = \gamma(x, \gamma, E), M \in V$
 $\int u|_{\partial V} = \gamma(x, \gamma, E), M \in V$
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 $\int u|_{\partial V} = \gamma(x, \gamma, E), M \in V$

r=r(0,M), 小为のMoSOMiの夫角 4、新 $\Delta_3 u=-S(\times,1,Z)=) u=-\frac{1}{2\pi}$. (注意質子).

/ Utt = 0, 0 x , 6 >0, -00 (x <00) $(x)_{b=(x,0)=0}, U_{a}(0,x)=\delta(x)$ J. 国周上的 Green的数: $G(M;M_0) = \frac{1}{2\pi i} \ln \frac{p_0 r(M,M_0)}{Rr(M,M_0)}$ $U(t_0, x) = \left(\frac{1}{2} \frac{1}{2} \frac{1}{2$ 1024 =0,0 < r SR 2 ulr=R= 4(0) 127 U(M)= = 1 50 T+R=2rRios(0-4) do. 波口,:{U+=Lu, t>0,-∞<x,7,又<0 (U(0,X,7,Z)={(X,7,Z) 为 $I1_2$: $\{U_4 = L_0 + f(t_1 \times 1, 7, 2), t>0, -\infty < x_1 y, 2 < \infty \cup \emptyset$ 。 $s = \times 3$ $\{u(0, \times 1, 7, 2) = y(x_1 y, 2)$ $\{u(0, \times 1, 7, 2) = y(x_1 y, 2)\}$ $\{u(0, \times 1, 7, 2$ U(t, M) * 4(M) + 5. U(t= C), M) * 7(z, m) dt = = $U_t = \alpha^2 \Delta_s u, t>0, -\infty < x, y, z < \infty$ { u(\$, x, y, Z)=s(x, y, Z) => U(t,x,1,8)= (20/11)3 e - x47482 $=4/2:V(t,x,t)=\left(\frac{1}{2a\sqrt{\pi t}}\right)^2e^{-\frac{x^2+y^2}{4a^2t}}$ - 約: U(t,x)=1/20/17# e 4at II,: (Utt = Lu, t>0, -0< x, Y, 2<00 (u(0, x, y, z)=0, u, (0, x, y, z)= (x, y, z) 为IIn: futt=Lutt(t, x, y, を), t>0, -のくx, y, をくの Lulo, x, y, を)= タ(x, y, を), ut(0, x, y, を)= ヤ(x, y, を) 的基本解 u(t, M) = == [u(t, M) * \((M)] + U(t, M) * \((M) + \int tult - z \), M) * \((z, M) \) (1(+,M)= 4+ar ∫ Utt = a²D3U, t>0, \$ -∞ < x, 1, 8<∞

: 個周上自己的過去! 一维波动方程 (a) (W) 1/10) = 1 1/2 (W) Mb1 [Utt = 02 Uxx , t>0, -00(x<00 { u(0, x)=0, U+ (0, x)=&(x) OLU PIOCHSK 61473 U(t, x)={ \frac{1}{2a}, xe[-at, at]} 区户村立方程 x²y"+axy'+by=0 有孔法: iQ x=et, 见少co> F, YM> co, -(0<+ (18, 1. x (1)) ++ 11) = 111 片 (U(0) x11, 3) = (x1) 3) $\frac{dy}{dx} = \frac{dy}{de^t} = e^{-t} \frac{dy}{dt}$ $\frac{d}{dx}\frac{dy}{dx} = \frac{d}{de}\left(e^{-t}\frac{dy}{dt}\right) = e^{-t}\frac{d}{dt}\left(e^{-t}\frac{dy}{dt}\right) = e^{-2t}\left(\frac{d^2y}{dt^2} - \frac{dy}{dt}\right)$ => dis)+((a=i) dy(n+by=b)) == b) = (1 (n) + x (n, b)) $u_{4} = \alpha^{2} \Delta_{3} u_{3} + \xi_{3} a_{3} - \infty < \kappa_{1} \gamma_{1} z < \infty$ $\mathcal{U}(\mathfrak{g}, x, y, z) = \mathcal{E}(x, y, z)$ = U(t)x,1,8)= (= (=) e - 144 + 3. 二分も・リ(で)メリニ(元十)との一様は、 一年:ログニメノニニカニアの一部 II,: / Utt= Lu, t>o, -o<x, 1, B<00 u(0, x, y, z)=0, u(0, x, y, z)=y((x, y, z) ガロロ: / Uff= Lu+f(も, か,カヨ),も20, つのくがり、E<∞ (ulo,x,y,s)= P(x,y,z), u.(0,x,y,z)= V(x,y,z) 66星本8军 $\alpha(t^2, m) = \frac{1}{3t} \int \alpha(t^2, m) * \beta(m) + \sum_{i=1}^{t} (m^2 + m) * \beta(m) + \sum_{i=1}^{t} (m^2 +$ (江金州)二年四十