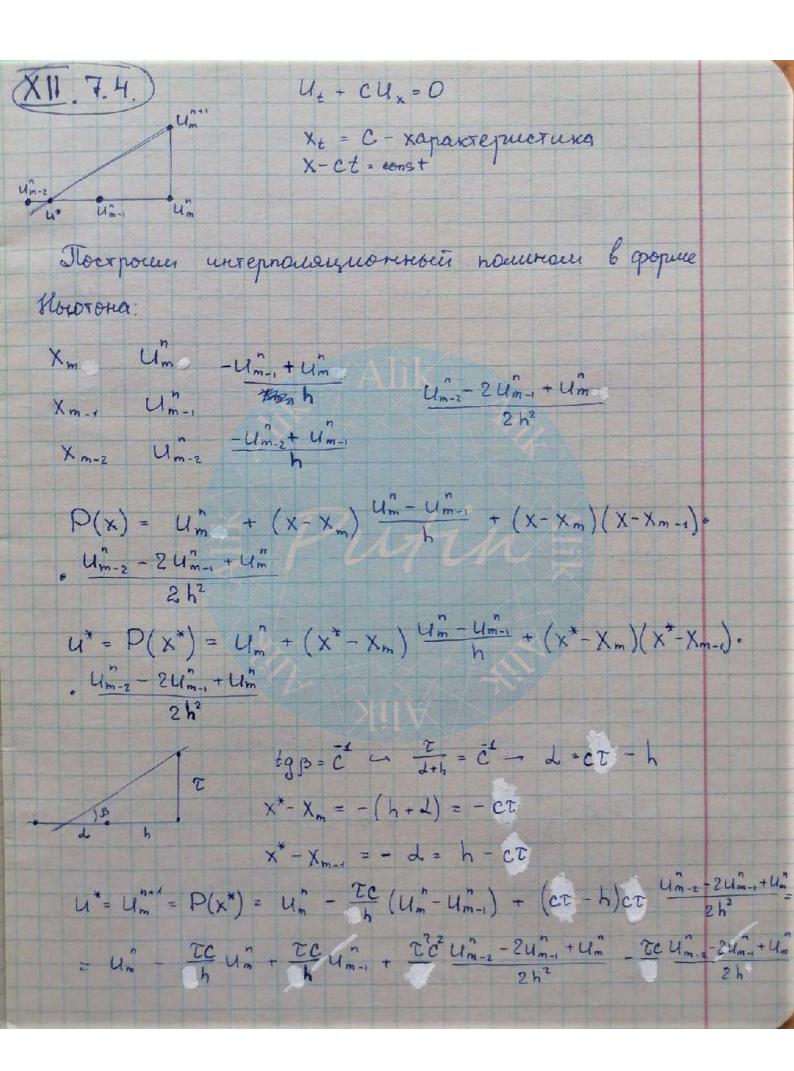


Значит шаксинаного возможност порадок аптрока ecté 2. Thouoncum S=1. Torga $\chi_{2} = \frac{T^{2}c^{2}}{2h^{2}} - \frac{CT}{2h}$, $\lambda_{2} = \frac{T^{2}c^{2}}{2h^{2}} + \frac{CT}{2h}$, $\beta = 4 - \frac{T^{2}c^{2}}{h^{2}}$. Bropod hopagox annous.

Ludo: $\frac{U_m^{n+1} - U_m^n}{T} + \frac{U_{m+1}^n - U_{m-1}^n}{2h}c + \frac{U_{m+1}^n + U_{m-1}^n}{2h^2}c^2 = 0$. Ucauegyeur na exogunocto: $U_m^n = \lambda^n e^{ikmh}$ $\lambda^{n+1} e^{ikmh} - \lambda^n e^{ikmh} - \lambda^n e^{ik(m+1)h} - \lambda^n e^{ik(m-1)h}$ $\lambda^n e^{ik(m+1)h} - \lambda^n e^{ik(m-1)h}$ $\lambda^n e^{ik(m+1)h} - \lambda^n e^{ik(m-1)h}$ $\frac{\gamma-1}{\tau^2} + \frac{e^{ikh} - ikh}{2\tau h} + \frac{e^{ikh} - ikh}{2h^2} + \frac{e^{ikh} - ikh}{2h^2} = 0$ 1-1 + i (sinkh c + sinkh c2) = 0 7-1 + i sin(kh) ch (++ ch)=0 171 = 1 = isin(kh) ct (+ c) <1 - yeu-ue T.K. mogget 37000 kanens. rucus 21 cs ex-cres ret



Joeod raggen:

$$U_{m}^{n+1} - U_{m}^{n} = -\frac{\tau_{c}}{h}U_{m}^{n} + \frac{\tau_{c}}{h}U_{m-1}^{n} + \frac{e^{2}\tau^{2}}{h}U_{m-2}^{n} - 2u_{m-1}^{n} + u_{m}^{n} + \frac{\tau_{c}}{2h^{2}}U_{m-2}^{n} - 2u_{m-1}^{n} + u_{m}^{n} + \frac{\tau_{c}}{2h^{2}}U_{m-2}^{n} - 2u_{m-1}^{n} + u_{m}^{n} + \frac{\tau_{c}}{2h^{2}}U_{m-2}^{n} - 2u_{m-1}^{n} + u_{m}^{n} - \frac{e^{2}\tau^{2}}{2h^{2}}U_{m-2}^{n} - \frac{u_{m-2}^{n} - 2u_{m-1}^{n} + u_{m}^{n}}{2h^{2}}U_{m-2}^{n} - \frac{u_{m-2}^{n} - 2u_{m-1}^{n} + u_{m}^{n}}{2h^{2}}U_{m-2}^{n}}U_{m-2}^{n} - \frac{u_{m-2}^{n} - u_{m-2}^{n} - u_{m-2}^{n} - u_{m-2}^{n}}{2h^{2}}U_{m-2}^{n} - \frac{u_{m-2}^{n} - u_{m-2}^{n} - u_{m-2}^{n}}{2h^{2}}U_{m-2}^{n}}U_{m-2}^{n} - \frac{u_{m-2}^{n} - u_{m-2}^{n} - u_{m-2}^{n}}{2h^{2}}U_{m-2}^{n}}U_{m-2}^{n} - \frac{u_{m-2}^{n} - u_{m-2}^{n}}{2h^{2}}U_{m-2}^{n}}U_{m-2}^{n} - \frac{u_{m-2}^{n} - u_{m-2}^{n}}{2h^{2}}U_{m-2}^{n}}U_{m-2}^{n}}U_{m-2}^{n} - \frac{u_{m-2}^{n} - u_{m-2}^{n}}{2h^{2}}U_{m-2}^{n}}U_{m-2}^{n}}U_{m-2}^{n} - \frac{u_{m-2}^{n} - u_{m-2}^{n}}{2h^{2}}U_{m-2}^{n}}U_{m-2}^{n}}U_{m-2}^{n}}U_{m-2}^{n}}U_{m-2}^{n} - \frac{u_{m-2}^{n} - u_{m-2}^{n}}{2h^{2}}U_{m-2}^{n$$

Mougralus, vo yp-ue, not. annporcuus-cs: 4 = 6 y"xx Top. annposec. O(2) + O(h2), norpeum. \(\frac{7}{6}y''' + 6\frac{7}{h}y'' = \delta Ucauegyeur ma yerowurboert:

y'' = \name 'e $\frac{\lambda - \frac{1}{\lambda}}{2\tau} = 6 \frac{e^{4} - \lambda - \frac{1}{\lambda} + e^{4}}{h^{2}}$ (2-1/2) = 6 (e'+ e') $\eta^{2}\left(\frac{1}{2\tau} + \frac{1}{h^{2}}\right) - \frac{26\lambda}{k^{2}}\cos\varphi + \frac{1}{k^{2}} - \frac{1}{2\tau} = 0$ $D = \kappa^2 - HC$ $\lambda = \frac{\kappa \pm \sqrt{\kappa^2 - HC}}{2} \qquad C_1 = \frac{h^2}{\tau}$ $|\eta| = \left| \frac{6\cos\varphi}{1 + \frac{C_1}{2}} \pm \sqrt{\frac{6^2\cos^2\varphi}{(1 + \frac{C_1}{2})^2} - \frac{1 - \frac{C_1}{2}}{1 + \frac{C_1}{2}}} \right| =$ $= \frac{6|\cos \varphi|}{1 + \frac{C_1}{2}} \left| 1 \pm \sqrt{1 - \frac{1 - \frac{C_1^2}{4}}{6^2 \cos^2 \varphi}} \right| \leq 1.$ For est Babucut or napamet pob 6 4 C1 = 12.

Somewhat $y = y^{n+1}$. Thoughous:

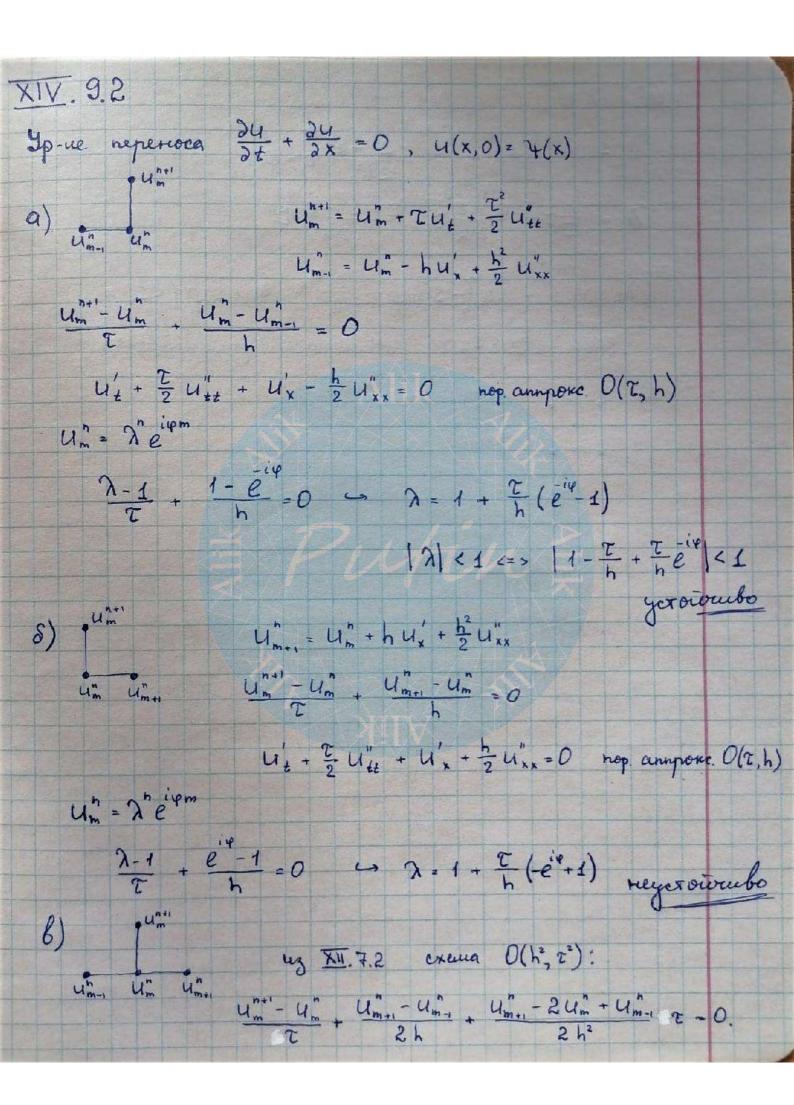
4 $t \cdot y'_t - 2t^2 y''_t + \frac{2}{3}t^3 y'''_t - 2t y'_t + 2t^2 y''_t - \frac{4}{3}t^3 y'''_t + O(t'')$ $= \frac{2t}{5} + \frac{2t}{5} + \frac{4}{5} + \frac{2t}{5} + \frac{4t}{5} + \frac{4t}{$

XII. 7.19 Bazuamen y r. ym . Dlauguen:

47 y' - 27 y" + \frac{2}{3} 23 y" - 27 y' + 27 y + - \frac{7}{3} 23 y" + O(7") z 6 2 ym + h2 y = 2 ym + 0(h) y't - 13 E'y" = 6y" + 0(h2) + 0(73) norpeum anyone $\Delta = -\frac{1}{3} \tau^2 y^{"}$, nop. any. $O(\tau^2, h^2)$ XIV.8.5 Duchepe coothour $\frac{\partial u}{\partial t} + a \frac{\partial u}{\partial x} = 0$, $a \neq const$ Egglus uckart quenenc coornous b buge y'm = e le = e Jlogerabeen 6 maboui yronoκ: = (ex-1) + = (1-e") = 0 orkyga 7(2, h, k) = + lh (1- at + at eith) Сравници дисперсионение сооти дия диграр. и соотв. paznoctrivex yp-mi. Tyregnouoriem kh «1, h-manoni napamerp. Torga guenere coornour Syger $\lambda(\tau,h,k) = -iak - \frac{ahk^2}{2}(1-\frac{a\tau}{h})$ = n(k) - k'ah (1-6), rge 6 = at Macros penserue npunier bug l. l

При ако, 4-ат >0 рассилатив скенцу неноза использо. bass que mobigerius pacierob. L'haurormeno 90, h-9200 Eaux me 070, h-0270, vo bropost eleveroneur. zorgkaer a poerous to vem docerpee, rem donoine k une marione à. Таким образам, по скеше ученок пошугаем тисичные решение, отшиношееся от точного нашичием запухания инопиня. дия гариноник с боношини к ими наноши х. Гассиотрин скенц вторгого породка- Лакса-Beregrooppa: (ym - ym) + & (ym - ym) - & (ym - 2 ym + ym) = 0 Auchere coothour Syger n= = In(1-15 sinkh-262 sin2 kh) Curaa kh « 1, nougrum 2(2, h, k) = -ika + ika kh (1-362) Demercies guopop yp-us neperioca unieros bug bout, kos gbures buporbo co exop. a: $u(t, x) = e^{ikx + \lambda(k)t} = e^{ik(x-at)}$ Secretures paymonthoro ypour I nop campone were bug: $y(t_n, x_m) = e^{ik(x_m + \lambda(t_n)t_n)} = e^{ik(x_m - \alpha(1 + A_n(k))t_n)} = e^{ik(x_m - \alpha(1 + A_n(k))t_n)}$ Т. е. каждая воина со своей пастотой движется c coõeté exoportoto $a_k = a(1 + A_k)$.

Лонугает почерно шоноч. продошен и(п), полвистие осщи-



XIV. 9.11 a) $\int \frac{U_{m}^{n+1} - U_{m}^{n}}{\tau} + \frac{3U_{m+1}^{n} + 4U_{m}^{n} - U_{m-1}^{n}}{2h} + \frac{35m_{m+1}^{n} + 35m_{m-1}^{n}}{2h} = \int_{m}^{n}$ Uccu. ra cnewsp. yeroweebocks: m. m. (2 2-1 + 2 - 3e + 4-e + 3 - 3e + 3e = 0 3 2-1 + 2 - e + e + 3 - e + 4 - 3e - 0 Construer, 2000 or gerepur cucreum odpour 60

2-1 -3e +4-e -3 (eikh - eikh) a= 2-1 6= -3ekh+4-ekh D= - i sinkh a+6 - a+ |6| + a6+a6 + 3 sin kh=0 4/2/6/2 = (-4coskh+4)2+ (2sinkh)2=64 sinkh + 4 sinkh - def

$$a (6+6) = 2a Re(6) = \frac{a}{h} (h-Hcoskh) = \frac{8a}{h} \sin^{2} \frac{kh}{2}$$

$$a^{2} + \frac{16}{16} \sin^{4} \frac{kh}{2} + \frac{1}{h^{2}} \sin^{4} kh + \frac{8a}{h} \sin^{2} \frac{kh}{2} + \frac{3}{h^{2}} \sin^{2} kh = 0$$

$$a^{2} + \frac{8a}{h} \sin^{2} \frac{kh}{2} + \frac{16}{h^{2}} \sin^{4} \frac{kh}{2} + \frac{4}{h^{2}} \sin^{4} kh = 0$$

$$a^{2} + \frac{8a}{h} \sin^{2} \frac{kh}{2} + \frac{16}{h^{2}} \sin^{4} \frac{kh}{2} + \frac{4}{h^{2}} \sin^{4} kh = 0$$

$$D = \left(\frac{4}{h} \sin^{2} \frac{kh}{2}\right)^{2} - \frac{16}{h^{2}} \sin^{4} \frac{kh}{2} - \frac{4}{h^{2}} \sin^{2} kh = -\frac{4}{h^{2}} \sin^{2} kh$$

$$A = 1 - \frac{4}{h} \sin^{2} \frac{kh}{2} + \frac{2i7}{h} \sin^{2} kh$$

$$1 \ln^{2} = \left(1 - \frac{4T}{h} \sin^{2} \frac{kh}{2}\right)^{2} + \frac{4T^{2}}{h^{2}} \sin^{2} kh = 1 - \frac{8C}{h} \sin^{2} kh$$

$$1 \ln^{2} = \left(1 - \frac{4T}{h} \sin^{2} \frac{kh}{2}\right)^{2} + \frac{4T^{2}}{h^{2}} \sin^{2} kh = 1 - \frac{8C}{h} \sin^{2} kh$$

$$1 \ln^{2} = \left(1 - \frac{4T}{h} \sin^{2} \frac{kh}{2}\right)^{2} + \frac{4T^{2}}{h^{2}} \sin^{2} kh = 1 - \frac{8C}{h} \sin^{2} kh$$

$$1 \ln^{2} = \left(1 - \frac{4T}{h} \sin^{2} \frac{kh}{2}\right)^{2} + \frac{4T^{2}}{h^{2}} \sin^{2} kh = 1 - \frac{8C}{h} \sin^{2} kh$$

$$1 \ln^{2} = \left(1 - \frac{4T}{h} \sin^{2} \frac{kh}{2}\right)^{2} + \frac{4T^{2}}{h^{2}} \sin^{2} kh = 1 - \frac{8C}{h} \sin^{2} kh$$

$$1 \ln^{2} = \left(1 - \frac{4T}{h} \sin^{2} \frac{kh}{2}\right)^{2} + \frac{4T^{2}}{h^{2}} \sin^{2} kh = 1 - \frac{8C}{h} \sin^{2} kh$$

$$1 \ln^{2} = \left(1 - \frac{4T}{h} \sin^{2} \frac{kh}{2}\right)^{2} + \frac{4T^{2}}{h^{2}} \sin^{2} kh = 1 - \frac{8C}{h} \sin^{2} kh$$

$$1 \ln^{2} = \left(1 - \frac{4T}{h} \sin^{2} \frac{kh}{2}\right)^{2} + \frac{4T^{2}}{h^{2}} \sin^{2} kh = 1 - \frac{8C}{h} \sin^{2} kh$$

$$1 \ln^{2} = \left(1 - \frac{4T}{h} \sin^{2} \frac{kh}{2}\right)^{2} + \frac{4T^{2}}{h^{2}} \sin^{2} kh = 1 - \frac{8C}{h} \sin^{2} kh$$

$$1 \ln^{2} = \left(1 - \frac{4T}{h} \sin^{2} \frac{kh}{2}\right)^{2} + \frac{4T^{2}}{h^{2}} \sin^{2} kh = 1 - \frac{8C}{h} \sin^{2} kh$$

$$1 \ln^{2} = \left(1 - \frac{4T}{h} \sin^{2} \frac{kh}{2}\right)^{2} + \frac{4T^{2}}{h^{2}} \sin^{2} kh = 1 - \frac{8C}{h} \sin^{2} kh$$

$$1 \ln^{2} = \left(1 - \frac{4T}{h} \sin^{2} \frac{kh}{2}\right)^{2} + \frac{4T^{2}}{h^{2}} \sin^{2} kh = 1 - \frac{8C}{h} \sin^{2} kh$$

$$1 \ln^{2} = \left(1 - \frac{4T}{h} \sin^{2} \frac{kh}{2}\right)^{2} + \frac{4T^{2}}{h^{2}} \sin^{2} kh = 1 - \frac{8C}{h} \sin^{2} kh$$

$$1 \ln^{2} = \left(1 - \frac{4T}{h} \sin^{2} \frac{kh}{2}\right)^{2} + \frac{4T^{2}}{h^{2}} \sin^{2} kh$$

$$1 \ln^{2} = \left(1 - \frac{4T}{h} \sin^{2} \frac{kh}{2}\right)^{2} + \frac{4T^{2}}{h^{2}} \sin^{2} kh$$

$$1 \ln^{2} = \left(1 - \frac{4T^{2}}{h} + \frac{4T^{2}}{h^{2}} \sin^{2} kh + \frac{4T$$

$$A = \begin{pmatrix} 2 & 2 & 3 \\ 1 & 1 & 1 \\ 1 & 3 & -1 \end{pmatrix}$$

$$(A - \lambda E) = \begin{pmatrix} 2 - \lambda & -2 & 3 \\ 1 & 1 - \lambda & 1 \\ 1 & 3 & -1 - \lambda \end{pmatrix} = (2 - \lambda)(\lambda^2 - 1 - 3) +$$

$$+ 2(-1 - \lambda - 1) + 3(3 - 1 + \lambda) = (2 - \lambda)(\lambda^2 - 1) + 2(-2 - \lambda) +$$

$$+ 3(2 + \lambda) = (\lambda - 2)((2 - \lambda)(\lambda - 2) - 2 + 3) = 0$$

$$\lambda = -2, 1, 3 \qquad \text{CHETCHIS} \qquad \text{TURE productions}$$

$$\lambda = -2^{\circ}$$

$$(\omega'_1 \omega'_2 \omega'_3) \begin{pmatrix} 4 & -2 & 3 \\ 1 & 3 & 1 \\ 1 & 3 & 1 \end{pmatrix} = (0 & 0 & 0)$$

$$(4 - 2 & 3) \begin{pmatrix} 4 & -2 & 3 \\ 1 & 3 & 1 \end{pmatrix} = (0 & 0 & 0)$$

$$(4 - 2 & 3) \begin{pmatrix} 4 & -2 & 3 \\ 1 & 3 & 1 \end{pmatrix} = (0 & 0 & 0)$$

$$(4 - 2 & 3) \begin{pmatrix} 4 & -2 & 3 \\ 1 & 3 & 1 \end{pmatrix} = (0 & 0 & 0)$$

$$(2 - 1) + \omega_3^4$$

$$(3 - 1) + \omega_3^4$$

$$(4 - 2 - 3) + \omega_3^4$$

$$(3 - 1) +$$

 $\lambda = 3$ $\begin{pmatrix} -1 & -2 & 3 \\ 1 & -2 & 1 \end{pmatrix} \sim \begin{pmatrix} -1 & -2 & 3 \\ 1 & -2 & 1 \end{pmatrix} \sim \begin{pmatrix} -1 & -2 & 3 \\ 1 & -2 & 1 \end{pmatrix} \sim \begin{pmatrix} 0 & -1 & 1 \\ 0 & 5 & -5 \end{pmatrix}$ (W1 W2 W3) 2(111) 1 3 R1 - 2 3 R1 = - 11 3 - 14 3 + h \ \ \frac{\partial R_2}{\partial t} + \partial R_2 = - 8 + 9 + h 2R3 + 3 2R3 = 3+9+h 1) Здесь з урил на невой границе, з на провой. 2) 4 ma nyrobbots (AM3) is ne nograguer 3) Likauouveres nyrekry 1 4) Dranowino nyrekry 1 D'Exemp e annporcum bonne 1 nop. no . Togyribe

Jacour oбоченый nyabour yronok Rim - Rim - 2 Rim+1 - Rim = 0 Cxema yerowenda non 12t/ <1 XIV. 9.6) 34 + a 34 - 0 a = const > 0 ym - ym + a ym - ym = 37 ym - 2ym + ym -, 3 = h - crema clarica 2 = 1 - lanco - Bengropapa 3=0 - Kypania - Uzancona - Juca Uccu ma yerowenboers: $y_m^n \sim \lambda^n e^{ikmn}$ $\frac{\lambda-1}{\tau} + a \frac{e^{ikh} - ikh}{2h} = \frac{3}{2}\tau \frac{e^{ikh} - 2 + e}{h^2}$ 7=1-iat sinkh - 324 sin kh 17/2= (1- 2th sin2kh)2+ at sin2kh = 1-8 3t sin2kh + + 16 2 sin kh + 4 9 sin kh (1- sin kh) = = 1+4 T2 Sin2 kh (a2-2 3) + 4 T2 Sin kh (4 3 T2 - a2) 51 a - 2 3 + sin kh (4 32 - a2) <0

 $Sih^2 \frac{kh}{2} > \frac{23-a^2}{a^2 + \frac{43^2}{h^2}}$ VKEZ Spu svous VKEZ sin2 kh & 1 C> 2 2-02 51 2 3 - 92 & Q2 - 43222 a2 = 2 + 2 3 2° 22 + h2 2 - h2 a2 ≤ 0 3 = [- \frac{h^2}{2\gamma^2} + \frac{h^4}{424} + \arg \frac{2h^2}{424} \frac{1}{2} Hep-bo boin-no npu: $-\frac{h^2}{2\tau^2} - \sqrt{\frac{h^4}{4\tau^4}} + \frac{2h^2}{\tau^2} \alpha^2 \le \frac{3}{2} \le -\frac{h^2}{2\tau^2} + \sqrt{\frac{h^4}{4\tau^4}} + \frac{2h^2}{\tau^2} \alpha^2$ Си-но так скеща будет устойчивой XIV. 9.8 34 + a 34 = 0, a = const >0 Метод неопр. конфар. Lum + Bum + & um+, + & um+, =0

$$\frac{3U}{3t} = \frac{1}{2} \frac{3^2U}{3x^2}$$
 - γρ-ие Tenuconpolognocru

Cxeuca Kpanka. - Huxaucona:

 $\frac{U_{m-1}^{n+1} - U_{m}^{n}}{T} = \frac{1}{2} \left(\frac{U_{m-1}^{n} - 2U_{m}^{n} + U_{m-1}^{n}}{h^2} + \frac{U_{m-1}^{n+1} - 2U_{m}^{n+1} + U_{m-1}^{n+1}}{h^2} \right)$
 $\frac{U_{m}^{n+1} \left(1 + \frac{T}{h^2} \right)}{2} = \frac{U_{m}^{n} \left(1 - \frac{DT}{h^2} \right)}{h^2} + \frac{DT}{2h^2} \left(\frac{U_{m-1}^{n} + U_{m-1}^{n+1} + U_{m-1}^{n+1}}{h^2} + \frac{U_{m-1}^{n+1}}{h^2} + \frac{U_{m-1}^{n+1} + U_{m-1}^{n+1}}{h^2} + \frac{U_{m-1}^{n} + U_{m-1}^{n+1}}{h^2} + \frac{U_{m-1}^{n} + U_{m-1}^{n}}{h^2} + \frac{U_{m-1}^{n}}{h^2} + \frac{U_{m-1}^{n} + U_{m-1}^{n}}{h^2} + \frac{U_{m-1}^{n}}{h^2} + \frac{U_{m-1}^{n}}{h^2} + \frac{U_{m-1}^{n}}{h^2} + \frac{U_{m-1}^{n}}{h^2$

XIII. 9.3

$$\frac{y^{n+1} - y^{n}}{t} = y^{n} + y^{n+1} +$$

Ecum
$$\frac{A}{4} = \left(1 + \frac{2\tau}{h^2} - \frac{2\tau}{h^2} \cos kh\right)^2$$
 $\frac{4\tau^2}{h^n} \cos^2 kh + 1 + \frac{2\tau}{h^2} \le 1 + \frac{4\tau}{h^2} + \frac{4\tau^2}{h^n} + \frac{4\tau^2}{h^n} \cos^2 kh - \frac{2\tau}{h^n} \cos kh - \frac{4\tau^2}{h^n} \cos kh$
 $\frac{2\tau}{h^2} + \frac{4\tau}{h^n} - \frac{2\tau}{h^2} \cos kh - \frac{4\tau^2}{h^n} \cos kh > 0$
 $\frac{2\tau}{h^2} + \frac{3\tau}{h^n} - \frac{2\tau}{h^n} \cos kh - \frac{4\tau^2}{h^n} \cos kh > 0$
 $\frac{2\tau}{h^2} + \frac{3\tau}{h^n} - \frac{2\tau}{h^n} \cos kh + \frac{4\tau^2}{h^n} \cos kh > 0$
 $\frac{2\tau}{h^2} + \frac{2\tau}{h^n} \cos kh + \frac{4\tau^2}{h^n} \cos kh > 0$
 $\frac{2\tau}{h^2} + \frac{2\tau}{h^n} \cos kh + \frac{4\tau^2}{h^n} \cos kh > 0$
 $\frac{2\tau}{h^2} \cos kh + \frac{4\tau^2}{h^n} \cos kh > 0$
 $\frac{2\tau}{h^2} \cos kh + \frac{4\tau^2}{h^n} \cos kh > 0$
 $\frac{2\tau}{h^2} \cos kh + \frac{4\tau^2}{h^n} \cos kh > 0$
 $\frac{2\tau}{h^2} \cos kh + \frac{4\tau^2}{h^n} \cos kh > 0$
 $\frac{2\tau}{h^2} \cos kh + \frac{4\tau^2}{h^n} \cos kh > 0$
 $\frac{2\tau}{h^2} \cos kh + \frac{4\tau^2}{h^n} \cos kh > 0$
 $\frac{2\tau}{h^2} \cos kh + \frac{4\tau^2}{h^n} \cos kh > 0$
 $\frac{2\tau}{h^n} \cos kh + \frac{4\tau^2}{h^n} \cos kh > 0$
 $\frac{2\tau}{h^n} \cos kh + \frac{4\tau^2}{h^n} \cos kh > 0$
 $\frac{2\tau}{h^n} \cos kh + \frac{4\tau^2}{h^n} \cos kh > 0$
 $\frac{2\tau}{h^n} \cos kh + \frac{4\tau^2}{h^n} \cos kh > 0$
 $\frac{2\tau}{h^n} \cos kh + \frac{4\tau^2}{h^n} \cos kh > 0$
 $\frac{2\tau}{h^n} \cos kh + \frac{4\tau^2}{h^n} \cos kh > 0$
 $\frac{2\tau}{h^n} \cos kh + \frac{4\tau^2}{h^n} \cos kh > 0$
 $\frac{2\tau}{h^n} \cos kh + \frac{4\tau^2}{h^n} \cos kh > 0$
 $\frac{2\tau}{h^n} \cos kh + \frac{4\tau^2}{h^n} \cos kh > 0$
 $\frac{2\tau}{h^n} \cos kh + \frac{4\tau^2}{h^n} \cos kh > 0$
 $\frac{2\tau}{h^n} \cos kh + \frac{4\tau^2}{h^n} \cos kh > 0$
 $\frac{2\tau}{h^n} \cos kh + \frac{4\tau^2}{h^n} \cos kh > 0$
 $\frac{2\tau}{h^n} \cos kh + \frac{4\tau^2}{h^n} \cos kh > 0$
 $\frac{2\tau}{h^n} \cos kh + \frac{4\tau^2}{h^n} \cos kh > 0$
 $\frac{2\tau}{h^n} \cos kh + \frac{4\tau^2}{h^n} \cos kh > 0$
 $\frac{2\tau}{h^n} \cos kh + \frac{4\tau^2}{h^n} \cos kh > 0$
 $\frac{2\tau}{h^n} \cos kh + \frac{4\tau^2}{h^n} \cos kh > 0$
 $\frac{2\tau}{h^n} \cos kh + \frac{4\tau^2}{h^n} \cos kh > 0$
 $\frac{2\tau}{h^n} \cos kh + \frac{4\tau^2}{h^n} \cos kh > 0$
 $\frac{2\tau}{h^n} \cos kh + \frac{4\tau^2}{h^n} \cos kh > 0$
 $\frac{2\tau}{h^n} \cos kh + \frac{4\tau^2}{h^n} \cos kh > 0$
 $\frac{2\tau}{h^n} \cos kh + \frac{4\tau^2}{h^n} \cos kh > 0$
 $\frac{2\tau}{h^n} \cos kh + \frac{4\tau^2}{h^n} \cos kh > 0$
 $\frac{2\tau}{h^n} \cos kh + \frac{4\tau^2}{h^n} \cos kh > 0$
 $\frac{2\tau}{h^n} \cos kh + \frac{4\tau^2}{h^n} \cos kh > 0$
 $\frac{2\tau}{h^n} \cos kh + \frac{4\tau^2}{h^n} \cos kh > 0$
 $\frac{2\tau}{h^n} \cos kh + \frac{4\tau^2}{h^n} \cos kh > 0$
 $\frac{2\tau}{h^n} \cos kh + \frac{4\tau^2}{h^n} \cos kh > 0$
 $\frac{2\tau}{h^n} \cos kh + \frac{4\tau^2}{h^n}$

XIII. 9.9

XIII. 9.9

$$\frac{1}{12} \frac{y^{n+1} - y^{n}_{n+1}}{z} + \frac{5}{6} \frac{y^{n+1} - y^{n}_{n+1}}{z} + \frac{1}{12} \frac{y^{n+1} - y^{n}_{n+1}}{z} = \frac{1}{2} \frac{y^{n+1} - y^{n}_{n+1}}{z} + \frac{1}{2} \frac{y^{n+1} - y^{n}_{n+1}}{z} + \frac{1}{2} \frac{y^{n+1} - y^{n}_{n+1}}{z} + \frac{1}{2} \frac{y^{n+1} - y^{n}_{n+1}}{z} = \frac{1}{2} \frac{y^{n} - y^{n}_{n+1} + y^{n}_{n+1}}{z^{n}_{n+1}} + \frac{1}{2} \frac{y^{n}_{n+1} - y^{n}_{n+1}}{z^{n}_{n+1}} + \frac{1}{2} \frac{y^{n}_{n+1} - y^{n}_{n+1}}{z^{n}_{n+1}} + \frac{1}{2} \frac{y^{n}_{n+1} - y^{n}_{n+1}}{z^{n}_{n+1}} = \frac{1}{2} \frac{y^{n}_{n+1} - y^{n}_{n+1}}{z^{n}_{n+1}} + \frac{1}{2} \frac{y^{n}_{n+1} - y^{n}_$$

$$\begin{cases} \left(1 - \frac{\pi}{2} \Lambda_{xx}\right) u^{\frac{1}{2}} - \left(1 + \frac{\pi}{2} \Lambda_{55}\right) u^{\frac{1}{2}} - \frac{\pi}{2} \\ \left(1 - \frac{\pi}{2} \Lambda_{55}\right) u^{\frac{1}{2}} - \left(1 + \frac{\pi}{2} \Lambda_{xx}\right) u^{\frac{1}{2}} - \frac{\pi}{2} \\ \left(1 - \frac{\pi}{2} \Lambda_{55}\right) u^{\frac{1}{2}} - \left(1 + \frac{\pi}{2} \Lambda_{xx}\right) u^{\frac{1}{2}} - \frac{\pi}{2} \\ \left(1 - \frac{\pi}{2} \Lambda_{55}\right) u^{\frac{1}{2}} - \left(1 + \frac{\pi}{2} \Lambda_{xx}\right) u^{\frac{1}{2}} - \frac{\pi}{2} \\ \left(1 - \frac{\pi}{2} \Lambda_{xx}\right) u^{\frac{1}{2}} - \left(1 - \frac{\pi}{2} \Lambda_{55}\right) u^{\frac{1}{2}} - \left(1 - \frac{\pi}{2} \Lambda_{55}\right) u^{\frac{1}{2}} - \frac{\pi}{2} \\ \left(1 - \frac{\pi}{2} \Lambda_{xx}\right) \left(1 - \frac{\pi}{2} \Lambda_{55}\right) u^{\frac{1}{2}} - \left(1 - \frac{\pi}{2} \Lambda_{55}\right) u^{\frac{1}{2}} - \frac{\pi}{2} \\ \left(1 - \frac{\pi}{2} \Lambda_{xx}\right) \left(1 - \frac{\pi}{2} \Lambda_{55}\right) u^{\frac{1}{2}} - \left(1 - \frac{\pi}{2} \Lambda_{xx}\right) \left(1 + \frac{\pi}{2} \Lambda_{55}\right) u^{\frac{1}{2}} - \frac{\pi}{2} \\ \left(1 - \frac{\pi}{2} \Lambda_{xx}\right) \left(1 - \frac{\pi}{2} \Lambda_{55}\right) u^{\frac{1}{2}} - \left(1 - \frac{\pi}{2} \Lambda_{xx}\right) \left(1 + \frac{\pi}{2} \Lambda_{55}\right) u^{\frac{1}{2}} - \frac{\pi}{2} \\ \left(1 - \frac{\pi}{2} \Lambda_{xx}\right) \left(1 - \frac{\pi}{2} \Lambda_{55}\right) u^{\frac{1}{2}} - \left(1 - \frac{\pi}{2} \Lambda_{xx}\right) \left(1 + \frac{\pi}{2} \Lambda_{55}\right) u^{\frac{1}{2}} - \frac{\pi}{2} \\ \left(1 - \frac{\pi}{2} \Lambda_{xx}\right) \left(1 - \frac{\pi}{2} \Lambda_{55}\right) u^{\frac{1}{2}} - \left(1 - \frac{\pi}{2} \Lambda_{xx}\right) \left(1 + \frac{\pi}{2} \Lambda_{55}\right) u^{\frac{1}{2}} - \frac{\pi}{2} \\ \left(1 - \frac{\pi}{2} \Lambda_{xx}\right) \left(1 - \frac{\pi}{2} \Lambda_{55}\right) u^{\frac{1}{2}} - \left(1 - \frac{\pi}{2} \Lambda_{xx}\right) \left(1 + \frac{\pi}{2} \Lambda_{55}\right) u^{\frac{1}{2}} - \frac{\pi}{2} \\ \left(1 - \frac{\pi}{2} \Lambda_{xx}\right) u^{\frac{1}{2}} - \left(1 - \frac{\pi}{2} \Lambda_{55}\right) u^{\frac{1}{2}} - \left(1 - \frac{\pi}{2} \Lambda_{xx}\right) u^{\frac{1}{2}} - \frac{\pi}{2} \\ \left(1 - \frac{\pi}{2} \Lambda_{xx}\right) u^{\frac{1}{2}} - \left(1 - \frac{\pi}{2} \Lambda_{55}\right) u^{\frac{1}{2}} - \frac{\pi}{2} \\ \left(1 - \frac{\pi}{2} \Lambda_{55}\right) u^{\frac{1}{2}} - \left(1 - \frac{\pi}{2} \Lambda_{55}\right) u^{\frac{1}{2}} - \frac{\pi}{2} \\ \left(1 - \frac{\pi}{2} \Lambda_{55}\right)$$

οδικαυσινικο
$$\Lambda_{2}^{6} = \frac{1 - G_{1}G_{2}}{1 + G_{2}G_{2}}$$
 $\Lambda_{1}^{6} \Lambda_{2}^{6} = \frac{1 - G_{2}G_{2}}{1 + G_{2}G_{2}}$
 $\Lambda_{1}^{6} \Lambda_{2}^{6} = \frac{1 - G_{2}G_{2}}{1 + G_{2}G_{2}}$
 $\Lambda_{1}^{6} \Lambda_{2}^{6} = \frac{1 - G_{2}G_{2}}{1 + G_{2}G_{2}}$
 $\Lambda_{2}^{6} \Lambda_{3}^{6} = \frac{1 - G_{2}G_{2}}{1 + G_{2}G_{2}}$
 $\Lambda_{1}^{6} \Lambda_{2}^{6} = \frac{1 - G_{2}G_{2}}{1 + G_{2}G_{2}}$
 $\Lambda_{2}^{6} = \frac{1 - G_{2}G_{2}}{1 + G_{2}G_{2}}$
 $\Lambda_{3}^{6} = \frac{1 - G_{2}G_{2}}{1 + G_{2}G_{2}}$
 $\Lambda_{4}^{6} = \frac{1 - G_$

$$\frac{\lambda_{1}-1}{C} = \frac{1}{2} \left(-\frac{H}{h_{1}^{2}} \sin^{2} \frac{k h_{1}}{2} \right) \frac{\lambda_{1}}{2} - \frac{H}{h_{2}^{2}} \sin^{2} \frac{m h_{3}}{2} \right)$$

$$\frac{\lambda_{1}^{1/2}}{\lambda_{1}} = \frac{1 - \frac{G_{3}6}{2}}{1 + \frac{G_{3}9}{2}} - \frac{1}{2} \frac{2}{1 + \frac{G_{3}9}{2}} - \frac{1 - \frac{G_{3}6}{2}}{1 + \frac{G_{3}9}{2}} - \frac{1}{1 + \frac{G_{3$$